# CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, March 16, 1905.

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## PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.), may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

| Bids close | Work. | Place. | On file. | See issue. |
|---|---|---|---|---|
| Mar. 16 | Paving | Boston, Mass. | S. | 3-16 |
| *17 | Dredge | St. Louis, Mo. | P. & S. | 1-19 |
| *20 | Water-works | Meeker, Colo. | S. | 3- 9 |
| 20 | Paving, etc. | Wilkesbarre, Pa. | P. S & B. S. | 3-16 |
| 27 | Electric crane | Portsmouth, N.H. | S. | 3- 2 |
| *27 | Street lighting | Laconia, N. H. | S. | 3- 9 |
| *28 | Coal pocket, etc. | Atlantic Cy, N.J. | P. & S. | 3- 2 |
| Apr. 1 | Electric cranes | Portsm'th, N. H. | S. | 3- 9 |
| *1 | Water-works | Montrose, Colo. | S. | 3-16 |
| 15 | Electric crane | Puget S'd, Wash. | S. | 3- 9 |
| 29 | Coal plant | New Orleans, La. | S. | 3- 9 |
| May *14 | Water-works | Mansfield, La. | S. | 2- 2 |

*Work advertised in Engineering News.

NOTE.—We are desirous of securing specifications and bidding sheets (and plans when not too bulky) of pending work for file in our New York office for the benefit of contractors or others who may be interested in the work. If more sets than one are sent us we shall be pleased to distribute these to contractors who ask for them. When the work is advertised in Engineering News a note that the plans are filed with us will be added to the advertisement without cost.

## LIST OF CONTRACTS PENDING.

Bids close. Work. Place. See issue.

### LIGHT, HEAT AND POWER PLANTS.

Mar. 17. Barracks lighting, St. Louis, Mo. ..... Mar. 9
Mar. 20. Electric generating plant, Wash., D. C. ..... Feb. 9
Advertised, Eng. News, Feb. 9.
Mar. 20. Gas holder, Holyoke, Mass. ..... Mar. 16
Mar. 20. Electric lighting, Camden, N. J. ..... Mar. 16
Mar. 20. Power house, Galesburg, Ill. ..... Mar. 16
Mar. 21. City lighting, Norwalk, O. ..... Feb. 16
Advertised, Eng. News, Feb. 16.
Mar. 21. Power house, New York, N. Y. ..... Mar. 2
Mar. 22. Power plant work, Dayton, O. ..... Mar. 9
Mar. 22. Power house, Aberdeen, Miss. ..... Mar. 16
Advertised, Eng. News, Mar. 9.
Mar. 27. Street lighting, Laconia, N. H. ..... Mar. 9
Advertised, Eng. News, Mar. 9 and 16.
Mar. 28. Dynamo house, Dover, N. J. ..... Mar. 9
Mar. 28. Electric plant, New Albany, Miss. ..... Mar. 16
Advertised, Eng. News, Mar. 16.
Mar. 31. Care of lights, Detroit, Mich. ..... Mar. 16
Apr. 3. Steam heating plant, Kirkland, Ind. ..... Mar. 9
Apr. 11. City lighting, Shreveport, La. ..... Feb. 16
April 3. Electric lighting, Cape Charles, Va. ..... Feb. 23
Apr. 12. Power house, Lockport, Ill. ..... Feb. 16
Advertised, Eng. News, Feb. 16.

### BRIDGES.

Mar. 18. Arches, concrete, Des Moines, Ia. ..... Mar. 2
Mar. 18. Bridge, Lawrenceville, Va. ..... Mar. 16
Mar. 18. Bridge, repair, Albuquerque, N. Mex. ..... Mar. 16
Mar. 20. Bridge, Gouverneur, N. Y. ..... Mar. 16
Mar. 20. Bridges, Newton, Kan. ..... Mar. 9
Mar. 20. Bridge, superstructure, Cleveland, O. ..... Mar. 9
Mar. 21. Bridges, Central City, Neb. ..... Mar. 2
Mar. 22. Bridge, approaches, Greenville, S. C. ..... Mar. 9
Mar. 22. Bridge, Portland, Ore. ..... Mar. 16
Mar. 22. Bridges, steel, Alexandria, S. Dak. ..... Mar. 16
Mar. 23. Bridge, Harrisburg, Pa. ..... Mar. 9
Mar. 23. Bridge approach, Washington, D. C. ..... Feb. 23
Advertised, Eng. News, Feb. 23 to Mar. 16.
Mar. 24. Bridge, steel concrete, Cedar Rapids, Ia. ..... Mar. 16
Mar. 25. Bridges, etc., Winnipeg, Man. ..... Mar. 16
Mar. 25. Bridges, Bentonville, Ark. ..... Mar. 2
Mar. 28. Bridge, Welland, Ont. ..... Mar. 16
Mar. 30. Bridges, Columbus, O. ..... Mar. 16
Mar. 30. Drawbridge, Manistee, Mich. ..... Mar. 2
Advertised, Eng. News, Feb. 23 and Mar. 2.
Mar. 30. Bridge, Providence, R. I. ..... Mar. 9
Advertised, Eng. News, Mar. 9 to 30.
Apr. 3. Bridge, Atlanta, Ga. ..... Mar. 16
Advertised, Eng. News, Mar. 16 to 30.
Apr. 4. Bridge, steel, Spokane, Wash. ..... Mar. 9
Apr. 4. Bridges, steel, Columbus, Ga. ..... Mar. 2
April 4. Bridges, Lincoln, Neb. ..... Feb. 23
Apr. 4. Bridge, Goldendale, Wash. ..... Feb. 9
Apr. 5. Bridge, Langdon, N. Dak. ..... Mar. 16
Apr. 6. Bridge, Wabash, Ind. ..... Mar. 2
Apr. 19. Bridges, Moscow, Idaho. ..... Mar. 9
May 1. Bridge, Richland Center, Ark. ..... Mar. 9
No date. Bridge, steel, London, Ont. ..... Mar. 9
No date. Bridges, Bluffton, Ind. ..... Mar. 2

### BUILDINGS.

Mar. 16. Building additions, New York, N. Y. ..... Mar. 9
Mar. 17. Academy repairs, etc., Salem, N. Y. ..... Mar. 9
Mar. 20. Post office, Elizabeth, N. C. ..... Feb. 2
Mar. 20. Two libraries, Waterloo, Ia. ..... Mar. 16
Mar. 20. Building, Brandon, Man. ..... Mar. 16
Mar. 21. Plumbing, Albany, N. Y. ..... Mar. 16
Mar. 21. Armory, Rochester, N. Y. ..... Feb. 23
Mar. 21. Post office, Laredo, Tex. ..... Feb. 2
Advertised, Eng. News, Feb. 2 and 9.
Mar. 21. Station and power house, New York, N. Y. ..... Mar. 2
Mar. 22. Plumbing, Grand Haven, Mich. ..... Mar. 9
Mar. 23. School, Baton Rouge, La. ..... Mar. 2
Mar. 23. School house, Ansonia, Conn. ..... Mar. 16
Mar. 25. Masonic Temple, New Martinsville, W. Va. ..... Mar. 9
Mar. 27. City hall, Alpena, Mich. ..... Mar. 2
Mar. 27. Post office, Lebanon, Pa. ..... Feb. 9
Mar. 27. School house, Boston, Mass. ..... Mar. 16
Mar. 27. Library, Attleboro, Mass. ..... Mar. 16
Mar. 27. School, Cleveland, O. ..... Mar. 16
Mar. 27. Boilers, N. Tonawanda, N. Y. ..... Mar. 16
Mar. 27. School, Newark, O. ..... Mar. 16
Mar. 27. School, New York, N. Y. ..... Mar. 16
Mar. 27. Barracks, Fort Washington, Md. ..... Mar. 16
Mar. 28. Post office, Superior, Wis. ..... Feb. 9
Advertised, Eng. News, Feb. 9 and 16.
Mar. 29. Screens, etc., Delaware City, Del. ..... Mar. 9
Advertised, Eng. News, Mar. 9 to 23.
Mar. 29. Court house, Baraboo, Wis. ..... Mar. 16
Mar. 29. Window frames, etc., Washington, D. C. ..... Mar. 16
Advertised, Eng. News, Mar. 16 and 23.
Mar. 30. New church, Clinton, Ia. ..... Mar. 16
Mar. 30. Heating apparatus, Waterloo, Ia. ..... Mar. 9
Mar. 31. School, Cleveland Heights, O. ..... Mar. 16
Mar. 31. Asphalt plant (Mfg. Pl.), Detroit, Mich. ..... Mar. 16
Apr. 3. Court-house, Kentland, Ind. ..... Feb. 23
Apr. 3. Post-office, Macon, Ga. ..... Feb. 23
Advertised, Eng. News, Feb. 23 to Mar. 2.
Apr. 3. College building, Ithaca, N. Y. ..... Mar. 2
Advertised, Eng. News, Mar. 2 to Mar. 16.
Apr. 3. Freight station, Cincinnati, O. ..... Mar. 9
Advertised, Eng. News, Mar. 9 and 16.
Apr. 4. Police station, New Haven, Conn. ..... Mar. 16
Apr. 5. Public buildings, Portland, Me. ..... Mar. 16
Apr. 6. Post office, Marblehead, Mass. ..... Mar. 2
Apr. 12. Jail, etc., Oakland, Md. ..... Mar. 16
Apr. 12. Court house, Marion, Va. ..... Mar. 16
Apr. 15. Shop buildings (Mfg. Pl.), Jackson, O. ..... Mar. 16
Apr. 15. Court house, Corsicana, Tex. ..... Mar. 16
Apr. 17. High school plans, Richmond, Va. ..... Mar. 16
Apr. 18. Auditorium, St. Joseph, Mo. ..... Mar. 16
May 8. Interior finish, New York, N. Y. ..... Mar. 16
May 9. Mechanical equipment, New York, N. Y. ..... Mar. 16
June 15. Court-house plans, New Orleans, La. ..... Feb. 23

### WATER SUPPLY AND IRRIGATION.

Mar. 16. Water-works, Callicoon, N. Y. ..... Feb. 23
Advertised, Eng. News, Feb. 23 and Mar. 2.
Mar. 17. Pipe and castings, Cincinnati, O. ..... Feb. 16
Advertised, Eng. News, Feb. 16 to Mar. 9.
Mar. 18. Water pipe, Washington, D. C. ..... Mar. 2
Advertised, Eng. News, Mar. 2.
Mar. 20. Water-works and sewers, North Bay, Ont. ..... Feb. 23
Mar. 20. Water-works, Boyce, La. ..... Mar. 2
Mar. 20. Water-works, Meeker, Colo. ..... Feb. 9
Advertised, Eng. News, Feb. 2 to Mar. 16.
Mar. 20. Stand-pipe, Omaha, Neb. ..... Mar. 16
Mar. 21. Water pipe, hydrants, etc., Reading, Pa. ..... Mar. 16
Mar. 21. Well, Fort Caswell, N. C. ..... Feb. 9
Mar. 21. Water valves, Cleveland, O. ..... Mar. 9
Advertised, Eng. News, Mar. 9 and 16.
Mar. 21. Fire hydrants, Cleveland, O. ..... Mar. 9
Advertised, Eng. News, Mar. 9 and 16.
Mar. 22. Water-works, sewers, Aberdeen, Miss. ..... Mar. 9
Advertised, Eng. News, Mar. 9.
Mar. 23. Water-works, Clare, Mich. ..... Mar. 16
Mar. 24. Boiler, etc., Port Townsend, Wash. ..... Mar. 9
Mar. 25. Boiler, pump, etc., Ft. Assinniboine, Mont. ..... Mar. 2
Advertised, Eng. News, Mar. 2 to Mar. 30.
Mar. 25. Water-works, electric plant, Alpena, Mich. ..... Mar. 9
Advertised, Eng. News, Mar. 9 and 16.
Mar. 25. Water-works, North Fort Worth, Tex. ..... Mar. 16
Mar. 28. Water-works, etc., New Albany, Miss. ..... Mar. 16
Advertised, Eng. News, Mar. 16.
Mar. 29. Water-works, Bradley, Ill. ..... Mar. 16
Mar. 29. Distributing system, San Antonio, Tex. ..... Mar. 9
Apr. 1. Water-works, Montrose, Colo. ..... Mar. 16
Advertised, Eng. News, Mar. 16 and 23.
Apr. 3. Irrigation canals, Cody, Wyo. ..... Mar. 9
Apr. 6. Pipe line, etc., Boston, Mass. ..... Mar. 9
Advertised, Eng. News, Mar. 9 to Apr. 6.
Apr. 10. Water pipe, Winnipeg, Man. ..... Feb. 16
Apr. 12. Water-works, etc., Portage la Prairie, Man. ..... Mar. 9
Advertised, Eng. News, Mar. 9.
Apr. 18. Pumping machinery, New Orleans, La. ..... Feb. 16
Advertised, Eng. News, Feb. 16 to April 20.
Apr. 18. Pumping engine, Toronto, Ont. ..... Feb. 23
Advertised, Eng. News, Feb. 23 to Mar. 23.
May 14. Water-works, Mansfield, La. ..... Mar. 2
Advertised, Eng. News, Mar. 2.
May 15. Pumping engine, Montreal, Que. ..... Mar. 9
Advertised, Eng. News, Mar. 9.

### SEWERAGE.

Mar. 17. Sewers, Springfield, Ill. ..... Mar. 16
Mar. 17. Sewer, Passaic, N. J. ..... Mar. 16
Mar. 18. Sewer, Watertown, Wis. ..... Mar. 9
Mar. 20. Sewer, Cresco, Ia. ..... Mar. 9
Mar. 20. Sewers, Augusta, Ga. ..... Mar. 16
Mar. 20. Storm sewer, Los Angeles, Cal. ..... Mar. 16
Mar. 20. Sewers, North Yakima, Wash. ..... Mar. 16
Mar. 21. Sewer, Marion, Ind. ..... Mar. 16
Mar. 21. Sewer, Des Moines, Ia. ..... Mar. 16
Mar. 22. Sewer, Guttenberg, N. J. ..... Mar. 16
Mar. 22. Sewers, Hoboken, N. J. ..... Mar. 9
Mar. 23. Sewers, Cleveland, O. ..... Mar. 16
Mar. 29. Central sewer, Columbus, O. ..... Mar. 16
Advertised, Eng. News, Mar. 16 and 23.
Mar. 29. Sewer, Portsmouth, O. ..... Mar. 9
Mar. 29. Sewers, Cincinnati, O. ..... Mar. 9
Mar. 29. Sewerage, Ft. McIntosh, Tex. ..... Mar. 9
Mar. 31. Sewer system, Salem, Mass. ..... Mar. 9
Advertised, Eng. News, Mar. 9 to 23.
Apr. 3. Sewage lift, Ft. Leavenworth, Kan. ..... Mar. 16
Apr. 3. Sewers, tanks, Kirkwood, Mo. ..... Mar. 16
Advertised, Eng. News, Mar. 16.
Apr. 5. Sewer systems, St. Joseph, Mo. ..... Mar. 16
Apr. 7. Sewer system, New York, N. Y. ..... Mar. 16
Apr. 18. 65 miles sewers, New Orleans, La. ..... Feb. 16
Advertised, Eng. News, Feb. 16 to April 20.

### STREETS AND ROADS.

Mar. 16. Roads, Bloomfield, Ind. ..... Feb. 16
Mar. 16. Paving brick, Brantford, Ont. ..... Mar. 9
Mar. 17. Paving, Philadelphia, Pa. ..... Mar. 9
Mar. 17. Stone, No. Greece, N. Y. ..... Mar. 16
Mar. 18. Paving, Lincoln, Neb. ..... Mar. 16
Mar. 18. Paving, etc., Seattle, Wash. ..... Mar. 16
Mar. 18. Road, Cincinnati, O. ..... Mar. 2
Mar. 20. Paving, Cincinnati, O. ..... Mar. 2
Mar. 20. Graveling, Brookville, Ind. ..... Mar. 9
Mar. 20. Paving, Helena, Mont. ..... Mar. 9
Mar. 20. Paving, brick, Clairton, Pa. ..... Mar. 9
Mar. 20. Curbing, stone, Augusta, Ga. ..... Mar. 9
Mar. 20. Road, gravel, Jacksonville, Fla. ..... Mar. 9
Mar. 20. Sidewalks, Oklahoma City, Okla. ..... Mar. 16
Mar. 20. Paving, etc., Albany, N. Y. ..... Mar. 16
Mar. 20. Streets, Toledo, O. ..... Mar. 16
Mar. 20. Road, So. Orange, N. J. ..... Mar. 16
Advertised, Eng. News, Mar. 16.
Mar. 20. Paving, etc., Wilkesbarre, Pa. ..... Mar. 16
Mar. 20. Gravel and sand, Boston, Mass. ..... Mar. 16
Mar. 20. Sidewalks, etc., Richmond, Ind. ..... Mar. 16
Mar. 21. Curbing, concrete, Creston, Ia. ..... Mar. 16
Mar. 21. Sidewalks, Marion, Ind. ..... Mar. 16
Mar. 21. Paving, St. Louis, Mo. ..... Mar. 16
Mar. 21. Sidewalks, cement, Bessemer, Ala. ..... Mar. 2
Mar. 22. Paving, vitrified brick, Independence, Mo. ..... Mar. 9
Mar. 22. Grading and draining, Cleveland, O. ..... Mar. 9
Mar. 23. Paving, asphalt & brick, Ft. Wayne, Ind. ..... Mar. 9
Mar. 23. Stone, Jerry City, O. ..... Mar. 9
Mar. 23. Curbs and gutters, Ft. Leavenworth, Kan. ..... Mar. 16
Mar. 24. Grading, Omaha, Neb. ..... Mar. 16
Mar. 24. Macadamizing, Cincinnati, O. ..... Mar. 2
Mar. 25. Road, Cincinnati, O. ..... Mar. 9
Mar. 25. Road, Harrisburg, Pa. ..... Mar. 9
Mar. 25. Paving, etc., Seattle, Wash. ..... Mar. 16
Mar. 25. Paving, etc., Boston, Mass. ..... Mar. 16
Mar. 27. Street, Tacoma, Wash. ..... Mar. 16
Mar. 27. Paving, asphalt, Cincinnati, O. ..... Mar. 9
Mar. 28. Paving, New Brighton, N. Y. ..... Mar. 16
Mar. 29. Plank walk, Fort Barrancas, Fla. ..... Mar. 16
Mar. 29. Paving, etc., Brooklyn, N. Y. ..... Mar. 16
Mar. 29. Paving, asphalt, Lima, O. ..... Mar. 9
Mar. 29. Paving, brick, Cincinnati, O. ..... Mar. 9
Mar. 30. Fire clay, Detroit, Mich. ..... Mar. 16
Mar. 31. Paving material, Minneapolis, Minn. ..... Mar. 16
Apr. 1. Macadamizing, Norwood, O. ..... Mar. 9
Apr. 1. Paving, Tacoma, Wash. ..... Mar. 9
Apr. 3. Paving, Montgomery, Ala. ..... Mar. 9
Apr. 3. Roads, Bedford, Ia. ..... Mar. 16
Apr. 3. Roads, Harrisburg, Pa. ..... Mar. 16
Apr. 4. Road, Vincennes, Ind. ..... Mar. 16
Apr. 4. Roads, Bloomfield, Ind. ..... Mar. 16
Apr. 4. Sidewalks, Greenville, Miss. ..... Mar. 16
Advertised, Eng. News, Mar. 16 to Apr. 6.
Apr. 5. Paving, Birmingham, Ala. ..... Mar. 16
Apr. 5. Roads, Peru, Ind ..... Mar. 2
Apr. 10. Sidewalks, Delaware City, Del. ..... Mar. 16
Advertised, Eng. News, Mar. 16 to Apr. 6.
Apr. 14. Creosoted block, Minneapolis, Minn. ..... Mar. 16
Apr. 18. Grading, etc., La Crosse, Wis. ..... Mar. 2
June 1. Paving, brick, Fremont, O. ..... Mar. 16

### MISCELLANEOUS CONTRACTS.

Mar. 16. Top soil, New York, N. Y. ..... Mar. 9
Mar. 17. Portland cement, Portage la Prairie, Man. ..... Mar. 9
Mar. 17. Dredge, St. Louis, Mo. ..... Jan. 19
Advertised, Eng. News, Jan. 19 to Feb. 10.
Mar. 18. Stone and cement, Wilmington, N. C. ..... Feb. 23
Advertised, Eng. News, Feb. 23 to Mar. 23.
Mar. 18. Tile drains, etc., Waterman, Ill. ..... Mar. 9
Mar. 20. Garbage collection, Perth Amboy, N. J. ..... Mar. 9
Mar. 20. Drainage ditch, New Cambria, Mo. ..... Feb. 23
Mar. 20. Levee work, England, Ark. ..... Mar. 2
Mar. 20. Sea wall, Alameda, Cal. ..... Mar. 16
Mar. 20. Boiler, Jacksonville, Fla. ..... Mar. 16
Mar. 20. Breakwater extension, Gabarus, N. S. ..... Mar. 16
Mar. 21. Garbage collection, York, Pa. ..... Mar. 16
Mar. 21. Repairing launch, etc., New York, N. Y. ..... Mar. 16
Mar. 21. Drainage ditch, Webster City, Ia. ..... Feb. 16
Mar. 21. Naval supplies, Washington, D. C. ..... Mar. 9
Mar. 22. Drainage work, Fort Dodge, Ia. ..... Mar. 2
Mar. 22. Concrete foundation, Detroit, Mich. ..... Mar. 2
Mar. 23. Street sprinkling, Plainfield, N. J. ..... Mar. 16
Mar. 23. Switchboards, New York, N. Y. ..... Mar. 16
Mar. 25. Electric crane, Portsmouth, N. H. ..... Mar. 2
Mar. 25. Wharf, grading, filling, New Orleans, La. ..... Feb. 23
Mar. 25. Electric elevator, Waco, Tex. ..... Mar. 9
Mar. 27. Riprap embankment, Boston, Mass. ..... Mar. 2
Advertised, Eng. News, Mar. 2 to 30.
Mar. 27. Mooring stones, Portland, Me. ..... Mar. 16
Mar. 27. Coal-handling machinery, Wash., D. C. ..... Mar. 16
Advertised, Eng. News, Mar. 16.
Mar. 28. Sand, piles, cable, etc., Washington, D. C. ..... Mar. 16
Mar. 28. Steel shed, New Orleans, La. ..... Mar. 16
Mar. 28. Coal pocket, etc., Atlantic City, N. J. ..... Mar. 2
Advertised, Eng. News, Mar. 2 and 9.
Mar. 28. Drainage, Grant Park, Ill. ..... Mar. 9
Advertised, Eng. News, Mar. 9.
Mar. 30. Coal conveying apparatus, W. Point, N. Y. ..... Mar. 9
Advertised, Eng. News, Mar. 9 to 30.
Mar. 30. Rock excavation, Boston, Mass. ..... Mar. 2
Advertised, Eng. News, Mar. 2 to 30.
Mar. 31. Electric railway, China ..... Oct. 20
Advertised, Eng. News, Oct. 20 to Dec. 29.
Apr. 1. Dredging, Sweden ..... Nov. 24
Apr. 1. Electric cranes, Portsmouth, N. H. ..... Mar. 9
Apr. 3. Sanitary fixtures, etc., Washington, D. C. ..... Mar. 16
Apr. 4. Cement, lumber, Winnipeg, Man. ..... Mar. 16
April 4. Ditch, Fairmont, Minn. ..... Feb. 23
Apr. 8. Railway, Yazoo & Miss. Valley ..... Mar. 9
Apr. 10. Steel rails and fishplates, Australia ..... Mar. 9
Apr. 10. Channel improvement, Bermuda ..... Jan. 26
Advertised, Eng. News, Feb. 2.
Apr. 10. Dam, canals, etc., Denver, Colo. ..... Feb. 16
Advertised, Eng. News, Feb. 16 to Mar. 30.
Apr. 11. Machinery, etc., Washington, D. C. ..... Mar. 16
Apr. 11. Foundry equipment, Washington, D. C. ..... Mar. 16
Apr. 12. Monument, Andersonville, Ga. ..... Mar. 16
Apr. 13. Portland cement, Washington, D. C. ..... Mar. 9
Advertised, Eng. News, Mar. 9 to April 13.
Apr. 15. Cruisers, Washington, D. C. ..... Mar. 2
Apr. 15. 100 miles railway, Tidewater Ry. ..... Mar. 9
Advertised, Eng. News, Mar. 9 to Apr. 6.
Apr. 15. Electric crane, Puget Sound, Wash. ..... Mar. 9
Apr. 25. Dredging, New Orleans, La. ..... Mar. 9
Apr. 25. Canals, etc., New Orleans, La. ..... Feb. 16
Advertised, Eng. News, Feb. 16 to April 20.
Apr. 29. Coal plant, New Orleans, La. ..... Mar. 9
May 1. Light-house, Egypt ..... Dec. 22
May 10. Ditching, Stevens Point, Wis. ..... Mar. 2
No date. Cross ties, Louisville & Nashville Ry. ..... Mar. 2
Advertised, Eng. News, Mar. 2.
No date. Water mains and sewers, Oakes, N. Dak. ..... Mar. 9
No date. Removing stone, New York, N. Y. ..... Mar. 9
Advertised, Eng. News, Mar. 9 to Apr. 6.

## RAILWAYS.

*The names of parties awarded contracts are printed in capital letters.*

ARIZONA EASTERN.—Construction work will begin this spring, according to Epes Randolph, Pres., at Tucson, Ariz. It will extend from San Carlos, on the Gila Valley, Globe & Northern Ry., to a point near Tempe, on the Maricopa & Phoenix Line.

BANGOR & NORTHERN MAINE SHORT LINE.—Herbert M. Heath, of Augusta, Me.; Geo. W. Maxfield, of Bangor; William H. Taylor, John W. Stokes and John D. Higgins, of New York, and Edward C. Stokes, of Trenton, N. J., have applied for a charter for this company. It is planned to build from Bangor through Lagrange, Mattamiscontis and Medway, to Millinocket and to build a branch into Presque Isle. Capital stock will be $55,000.

BIRMINGHAM, COLUMBUS & ST. ANDREWS.—W. M. Gordon, Pres., Columbus, Ga., writes us that all right of way has been secured and surveys partly completed. Contracts will be let about April 15. About 23 miles are graded from Chipley. The railroad will be 360 miles long, running from St. Andrews via Chipley, Fla., Dothan, Eufaula and Pittsboro, Ala., to Columbus, Ga. J. M. Garrett, Chipley, Fla., is Ch. Engr.

CANADIAN NORTHERN.—The legislature of Manitoba has voted to guarantee $1,890,000 of Canadian Northern bonds, covering construction of 189 miles of road. This provides for the construction of five branches as follows: From Carberry, Man., to Brandon, and thence to the western boundary of Manitoba, 100 miles; from Winnipeg east across the Red River, 25 miles; a branch to Bird's Hill, seven miles; a branch from a point between Winnipeg and Oak Point across the Assiniboine River to connect with the St. Charles and Winnipeg line, seven miles, and a branch from Emerson to connect with the main line between Woodridge and Sprague, 15 miles. $1,000,000 of bonds additional was guaranteed for the purpose of acquiring terminals in Winnipeg. M. H. McLeod, Winnipeg, Man., is Ch. Engr.

CANADIAN NORTHERN.—William Mackenzie, Pres., Toronto, Ont., has announced that this company will build an extension from Swan River to Hudson Bay. W. F. Tye, Montreal, Que., is Ch. Engr.

CHICAGO, MILWAUKEE & ST. PAUL.—This company may build an extension this year from Star Lake, Wis., north to Crystal Falls, Mich., about 40 miles. The road probably will connect with the Ontonagon & Southwestern now being built southwest from Ontonagon, Mich. D. J. Whittemore, Chicago, is Ch. Engr.

CHICAGO & NORTHWESTERN.—On the line from Manitowoc, Mich., to Gillett, this company will spend, it is said, $2,000,000 in improvements.

COLORADO, WYOMING & IDAHO.—It is reported that J. H. McNEALEY, of Centennial, Wyo., has contract for furnishing ties for this company. Noted on Nov. 24.

COLUMBIA RIVER & NORTHERN.—This railroad has been sold. Eastern capitalists are reported purchasers. It is stated that improvements are contemplated. H. C. Campbell, Portland, Ore., is Gen. Mgr.

DENVER & RIO GRANDE.—KILPATRICK BROS., Beatrice, Neb., have contract for D. & R. G. extension from Carbon, Colo., near Durango, to Farmington, N. Mex, about 50 miles.

EASTERN WASHINGTON.—We are informed that this road will be about 35 miles long. As previously noted, it will extend from Connell to Fletcher, Wash. Preliminary survey has been made. Nearly all right of way has been secured. Contracts will be let about March 15. Maps, etc., will be furnished upon application to J. J. Hughes, Ch. Engr., Spokane, Wash. W. S. Foster is Pres. The Eastern Washington Construction Co. has been organized with $500,000 capital. T. Toppan Tannatt, Spokane, Wash., is Ch. Engr. of the construction company.

ERIE.—Joseph M. Graham, fourth Vice-Pres., New York, informs us that there is nothing in the report that grade changes and improvements are planned for Paterson, N. J., Noted on Feb. 23.

ERIE.—The main line will be rebuilt, it is reported, from a point five miles west of Salamanca, N. Y., to Franklin, Pa., via the Allegheny River, Warren, Irvineton and Oil City. Changes of grades and elimination of curves between Salamanca and Greenville are contemplated. C. W. Buchholz, New York, is Consulting Engr.

FLORIDA EAST COAST.—E. B. Carter, Engr., and Gen. Roadmaster, St. Augustine, Fla., has stated that plans are being prepared for the extension from Homestead to Key West, 136 miles. It has not been decided when contracts will be let. Surveys have been completed for the entire line. J. C. Meredith is Constructing Engr., at Miami, Fla. J. R. Parrott, Gen. Mgr., has announced, in a reported interview, that cost of this line will exceed first reports. Work will be begun this summer, probably. Previously mentioned.

GALVESTON, HARRISBURG & SAN ANTONIO.—Company has asked Texas state legislature, now in session, for authority to purchase and consolidate with the New York, Texas & Mexican Ry., the Gulf, Western Texas & Pacific Ry. and the San Antonio & Gulf Ry. The latter road extends from San Antonio, southeast to Stockdale and the companies agree to extend same to Cuero, about 40 miles, if consolidation is authorized. J. M. Lee is Gen. Mgr. S. A. & G. Ry., San Antonio, Tex.; and W. G. Van Vleck is Gen. Mgr. G. H. & S. A. Ry, Houston, Tex. A. V. Kellogg is Ch. Engr., G. H. & S. A. Ry., at Houston.

GEORGIA, FLORIDA & ALABAMA.—This company, we are informed, will build extensions this spring or summer. Line has been located for an extension from Havana, Fla., to Quincy, 12 miles. Surveys are being run now from Cuthbert, Ga., to Columbus, 60 miles. It is expected that work of construction will begin within 60 days. J. P. Williams, Savannah, Ga., is Pres.; E. B. Epps, Cuthbert, Ga., is Ch. Engr. of Construction.

GOLDFIELD.—We are informed that McLEAN & McSWEENEY, noted on March 2, have the contract for building this railway. It will be 31 miles long. R. W. Welsh, Tonopah, Nev., is Ch. Engr; Thomas M. King, New York, is Pres. Noted previously under "Tonopah Ry."

GREAT NORTHERN.—An extension probably will be built this summer from York to Dunseith, N. Dak., 35 miles. A. H. Hogeland, St. Paul, Minn., is Ch. Engr.

GULF, COLORADO & SANTA FE.—This company, which purchased the Cane Belt Ry., extending from Sealy to Matagorda, about 90 miles, now asks authority from Texas State Legislature to consolidate with same. It is stated that if consolidation is authorized the company will cross the Colorado River at Garwood, about six miles south of Eagle Lake, and extend down the west side of the river via El Campo and Middfelds, 50 miles, through the cane and rice belt. Olive Snyder is Gen. Mgr., Cane Belt Ry., at Eagle Lake, Tex.; W. C. Nixon, Gen. Mgr. G. C. & S. F. Ry., Galveston; C. F. W. Felt is Chief Engr. G. C. & S. F. Ry., at Galveston, Tex.

GULF & INTERSTATE.—Frederick M. Hubbell, Des Moines, Ia., is said to be backing a project to extend this railway for 350 miles.

INDIANA.—Railway tracks in Indianapolis, Ind., will be raised, under the supervision of the Board of Public Works. Track-elevation bill has been approved and signed by J. Frank Hanly, the Governor. City is not authorized to order more than $400,000 of improvements in one year, in connection with track raising. B. J. T. Jeup is Cy. Engr. of Indianapolis.

INDIANA HARBOR.—The contract for building the first 25 miles of the extension from Hartsdale, Ind., to Danville, Ill., has been awarded, it is said, to the KNICKERBOCKER ICE CO., of Chicago. An extension from Osborn, the present terminus, to Hartsdale is already under construction. Noted on March 2.

ILLINOIS.—Track elevation in Joliet, Ill., is objected to by the city on account of its forming an obstruction through the city. An ordinance providing for this work had been accepted by the six railways entering the city, and it had been estimated that the work could be done in three years, at a cost of $3,000,000.

LEWISTON & SOUTHEASTERN.—Colonel Spofford, Pres., has stated that it is proposed to build this railway next spring if capital is secured. It will run from Lewiston to Grangeville, Idaho. Motive power during construction will be steam, but line will be operated by electricity when it is completed. Length will be about 125 miles.

LEHIGH VALLEY.—Company has awarded contract to build a spur three miles from Lyons Farms to Irvington, as soon as the weather permits, to JOHN F. DOLAN, of Elizabeth, N. J. The cost of the work will be $75,000.

LOUISVILLE, HENDERSON & ST. LOUIS.—It is stated that this company, which now uses the tracks of the Illinois Central between West Point and Louisville, Ky., about 21 miles, will build its own line between these points. This is an old project and a portion of the grading has been completed for some years. R. N. Hudson is Ch. Engr., Cloverport, Ky.

LOUISVILLE & NASHVILLE.—RODES & McDOWELL and WALTON & WILSON have been awarded contracts for grading work on line between Guthrie and Greenbrier, Ky., 30 miles.

MIDDLETON & VICTORIA BEACH.—MACKENZIE, MANN & CO., LTD., Toronto, Ont., have contract for building an extension to Halifax & Southwestern line.

MINNEAPOLIS, ST. PAUL & SAULT STE. MARIE.—We are informed that contract for grading 300-mile branch from Thief River Falls, Minn., to Kenmore, N. Dak., has been let to WINSTON BROS., of Minneapolis. Noted on March 9.

MISSOURI.—The St. Louis "Republic" states that the Big River Construction Co., through A. T. Fisher, Pres., has filed a petition in the St. Louis county court for a franchise to build and operate a standard-gage railroad from the southern limits of St. Louis to and through Fenton, to a point at the southern boundary line of St. Louis county. Motive power will be either steam or electricity.

MISSOURI, OKLAHOMA & GULF.—E. F. Mitchell, Engr. of Construction, Missouri Pacific Railway, at St. Louis, writes us that extension from Bagnell, Mo., to Springfield is not contemplated, as reported by local newspapers. The line between Joplin, Mo., and Muskogee, Ind. T., is not to be built by Missouri Pacific but probably is a project of Muskogee Union Railway, which was recently absorbed by Missouri, Oklahoma & Gulf. D. F. Morse, Kansas City, Mo., is Ch. Engr., of M., O. & G.

MONTREAL, QUEBEC & SOUTHERN.—E. A. D. Morgan, 9 East St. James St., Montreal, Que., informs us that incorporation is being sought to build a 20-mile railway from St. Guillaume Station, Que., to Sorel, via St. David. Right-of-way is purchased and capital secured. Contracts probably will be let in April.

NEW YORK, AUBURN & LANSING.—The New York, Auburn & Lansing Railroad Co. was granted permission by the New York State Board of Railroad Commissioners to issue mortgage bonds to the value of $1,000,000. Of that amount but $200,000 can be issued at the present time. The company has a charter to construct and operate a road from Auburn to Ithaca.

NEW YORK CANADIAN PACIFIC.—An agreement of consolidation of the New York & Albany Railroad Co., capital $5,000,000, with the Schenectady & Albany Railroad Co., capital $150,000, and the New York Northern Railroad Co., capital $5,000,000, forming the New York Canadian Pacific Railway, has been filed with the Secretary of State of New York. The consolidated company has a capital of $10,150,000, and the directors are Verplanck Colvin, George C. Van Tuyl, Jr., W. Howard Brown, Albany; John McEncree, Schenectady; Peter H. Flagler, Clarksville; James Francis, Edwin A. Jones, Edward D. A. Colvin, New York City, and Kenneth K. McLaren, Jersey City. These companies hold franchises to construct a line of railroad from New York, N. Y., to Canada, passing through Albany and the Adirondack region.

PAWNEE RY.—An extension may be begun this summer from Pawnee, Ill., to Taylorville. This railway is controlled by the Peabody Coal Co., 215 Dearborn St., Chicago, which recently increased its capital stock from $120,000 to $2,500,000. C. F. Clendennen, Pawnee, Ill., is Supt.

PENNSYLVANIA.—The contract for the construction of a narrow-gage railroad from Indian Creek to a point near the old St. John furnace, Connellsville, Pa., has been let by the Mountain Water Supply Co. to J. H. SWAN.

It is reported that the Kennerly Coal & Coke Co., Somerset, Pa., will receive bids about April 1 on construction of ten miles of railroad.

PENNSYLVANIA RY.—Directors of the Pennsylvania Railroad at meeting held in Philadelphia on March 8 authorized the expenditure of $31,000,000 for construction and equipment. Additional appropriations, as they are required, will be made until the amount, it is said, will aggregate $75,000,000 for the year for all parts of the system. The greater part of the expenditures authorized will be used in paying for the motive power, car equipment and steel rails ordered. These improvements include the laying of second, third and fourth tracks on the New York division, the Philadelphia division, the Middle division and the Pittsburg division. Greater freight yards will be constructed as quickly as possible and plans devised for better classification. Two four-track bridges will be built across the Juniata River, near Lewistown, and additional tracks provided in and about Harrisburg and Hollidaysburg. At Dennison a $300,000 roundhouse will be erected. The further improvement of the company's facilities on the Philadelphia, Baltimore and Washington division will be undertaken and pushed forward on plans made two years ago. The freight line westward from Coatsville will be completed probably by next winter. The Buffalo and Allegheny division will be included in the improvements for this year, it is said. A freight yard will be established near Oil City. Improvements at Pittsburg will be continued and the Duquesne Tunnel vated will be completed within a year. The [illegible] that improvement has been ordered and the contr[illegible] at work.

On March 13 the company awarded the contr[illegible] JOHN SHIELDS CONSTRUCTION CO., 1 Mad[illegible] New York, for building twin tunnels und[illegible] Hill, N. J., connecting its New York division wi[illegible] nels under North River. The cost of the wor[illegible] let at $2,250,000. It is stipulated the work [illegible] completed in two years. W. N. Brown, Philad[illegible] Ch. Engr.

POTOMAC & POCAHONTAS.—We are inform[illegible] preliminary survey has been made for propos[illegible] branch from Keyser, W. Va., to Mayeville. Eu[illegible] ton, New York, is Pres.

QUEBEC BRIDGE & RAILWAY CO.—Contra[illegible] from a point on the Intercolonial Ry. to the St. L[illegible] River, across the St. Lawrence River and into ten miles, has been let to M. P. DOVIS, of Ott[illegible] Grading is completed for two miles and one [illegible] track is laid.

SOUTHPORT & NORTHWESTERN.—We are [illegible] by Waccamaw Land & Lumber Co., Wilmington, N. C., that nothing has been done in constructing the S. & N. W. It probably will be some time before work is begun. The railway has been incorporated by F. W. Wheeler, E. Clark and E. H. Silliman, of the Lumber Co. It will run from Southport via Whiteville to Sanford, at which point it will connect with the Atlantic Coast Line, Seaboard Air Line and Southern Ry. Capital stock is $200,000.

TEXAS.—The Beaumont Transportation Co. may build a 25-mile line from Voth to Saratoga. The company was incorporated by J. F. Keith, B. R. Norvell and W. C. Tyrrell. The Keith Lumber Co. is said to be interested. The line would be used for lumber purposes.

TEXAS SOUTHERN.—This railway will be sold at Marshall, Tex., on Aug. 8. The minimum bid must be $[illegible],000. S. P. Jones is Receiver.

TOMBIGBEE VALLEY.—W. G. Cochrane, Vice-Pres., Healing Springs, Ala., informs us that BEATTY & WILLIAMS, Healing Springs, are principal contractors, with R. M. NEWELL, for constructing 40-mile extension from Healing Springs to Butler. N. T. Kolb, Healing Springs, is Ch. Engr.

WASHINGTON & COLUMBIA RIVER.—This company will begin work at once on standardizing the narrow-gage road recently purchased from the Oregon Railroad & Navigation Co. Grading has begun. The road will vacate the old line for a mile through Green's addition, and use a new route farther north and east, connecting with the main line of the Washington & Columbia Railroad. Joseph McCabe is Gen. Mgr., Walla Walla, Wash.

WESTERN LUMBER CO.—This company has awarded a contract to the HUTCHINSON CONSTRUCTION CO. for building 3-mile standard-gage railroad from Jenner, Cal., to coast. Company's offices are at Jenner.

WINDSOR, ESSEX & LAKE SHORE RAPID.—Philip Heseltine, Gen. Mgr., Chamber of Commerce Bldg., Detroit, Mich., is receiving bids for construction of its proposed road from Windsor to Chatham, by what is known as the Shore Run, passing through the towns of Essex, Kingsville, Leamington, Wheatley, thence north to Tilbury, thence west by the Middle Road to Buxton and thence to Chatham, according to the charter right as granted by Special Acts of the Legislature of the Province of Ontario.

## STREET AND ELECTRIC RAILWAYS.

*The names of parties awarded contracts are printed in capital letters.*

MANCHESTER, N. H.—The main car barn of the Manchester Street Ry. Co. was damaged by fire March 4. Loss, $150,000. W. E. Maloney is Supt., 46 Hanover St., Manchester.

NEW LONDON, CONN.—E. A. CARD, of Groton, has been given the contract to provide about 31,000 ties for New London & East Lyme Street Ry. Co. The road will require about 2,700 ties to the mile, and the line will be in the vicinity of 12 miles in length. Contract for rails has been let.

BRIDGEPORT, CONN.—The Standish Stone Co., general contractors, 1913 East Main St., Bridgeport, want prices on 70-lb. rails, including all plates, tie-rods, frogs, switches, etc.; also all overhead work, including feed wires and all wire and other metal necessary to complete construction.

AUBURN, N. Y.—The Auburn & Northern Electric Ry. Co. has been granted permission by State Board of Railroad Commissioners to construct a nine-mile double-track road from Auburn to Port Byron.

NEW YORK, N. Y.—We are informed that the New York, Westchester & Boston Ry. Co., offices, 30 Broad St., has just begun making its final surveys for route between Mt. Vernon and Port Chester. This work is being conducted under the general supervision of J. C. Cryder, Div. Engr., located at Mt. Vernon. This is in addition to preliminary surveys which were made over Westchester County part of route last year when three lines were laid. At the present time five corps of engineers in all are at work for Westchester Company, three operating in Borough of Bronx, one on branch from Mt. Vernon to White Plains, and additional squad, mentioned above. A large section of right-of-way in New York City has been recently purchased.

SCRANTON, PA.—E. D. Reed, Engr., informs us that the Scranton Ry. Co. will make the following improvements this season: Double-track South Blakely St., Dunmore; connection with S. D. & M. L. R. R. at end of Drinker St. line; double-track on Capouse Ave. in case street is paved; install one 500-KW. Curtis turbo-generator, to be driven by exhaust steam; and ten 22-ft. car bodies.

GREENSBURG, PA.—P. A. Meyer, Engr., City, writes us that the Pittsburg, McKeesport & Greensburg Ry. Co. has let the contract for nine bridges, about 2,590 lin. ft., to the AMERICAN STRUCTURAL STEEL CO., of Pittsburg, Pa., and is now receiving bids for balance of material necessary for its six-mile extension from Irwin to Stewart's Station, Pa. About four and a half miles of grading is done, and the balance is under contract to be finished June 1.

WASHINGTON, D. C.—The House and Senate have both passed the bill granting the Anacostia, Surrattsville & Brandywine Electric Ry. Co. the right to extend its lines into Anacostia.

CHATTANOOGA, TENN.—Application has been made for a charter by the Tennessee-Georgia Interurban Electric Ry. Co., with $300,000 cap. stock. Incorporators: S. W. Divine, of Chattanooga; J. H. Walker, Jr., J. R. Jones, of Catoosa County, Georgia, and others.

LEXINGTON, KY.—Amended articles of incorporation increasing the capital stock of Fayette Interurban Traction Co. from $100,000 to $200,000 have been prepared for filing. Work will be begun on the road between this city and Versailles next month. H. T. Brown is Engr.

MILFORD, O.—The Cincinnati & Columbus Traction Co. has been granted a franchise through this town. Track construction is to start as soon as weather permits. B. W. Fenton is Ch. Engr., Cincinnati.

LIMA, O.—It is stated that bids are being received by the Lima & Findlay & Toledo Traction Co. for material and construction work, and work on line will start at once. The company propose to build a line from Lima to Findlay, a distance of 32 miles.

CLEVELAND, O.—The Detroit, Flint & Saginaw Railway is to be extended from Passar to Flint and from Saginaw to Tromkmouth, about 50 miles. Active work will start at once. Roberts & Abbott Co., of Cleveland, are consult. Engrs. The power station at Bridgeport, which is partially completed, will be enlarged. Risinger & Pendler, of Pittsburg, Pa., are Engrs. for power house. Hon. Timothy Tarsney and T. G. Sullivan, of Detroit, are at head of company.

PORT CLINTON, O.—The Toledo Interurban Construction Co. has recently awarded to Allis-Chalmers Co. the contract for the complete equipment of the new power house of the Toledo, Port Clinton & Lake Side Railway at Port Clinton. Arrangements have been made to have the new extension of the railway completed as far as Marblehead and cars put in operation to that place from Toledo by July 1.

SANDUSKY, O.—Geo. B. Kerper, Jr., of Toledo, and others are promoting a line to extend from Fremont to Sandusky. It is stated that practically all right-of-way has been secured.

FOSTORIA, O.—The Toledo, Fostoria & Findlay Ry. Co. will extend its line this summer from Fostoria to Pemberville, a distance of about 20 miles. The greater portion of right-of-way has been secured. F. W. Adams is Gen. Mgr., Fostoria.

SPRINGFIELD, O.—The survey has been started on a traction line it is proposed to build from Springfield to Lima via Catawba, Mechanicsburg and Marysville.

COSHOCTON, O.—We are informed that the Zanesville, Coshocton & New Philadelphia Ry. Co. has been incorporated to build an electric line from Zanesville to New Philadelphia via Coshocton. Survey is being made, rights-of-way taken up, and county and village franchises being secured. Some time will elapse before construction can be started. J. W. Cassingham, City, is one of the incorporators.

GREENCASTLE, IND.—The Council has granted a franchise to the Indianapolis, Danville & Rockville Interurban Co. for an interurban line. The company agrees to have the line in operation within two years. J. W. Trotter is Ch. Engr., Danville.

INDIANAPOLIS, IND.—Butler Smith, Ch. Engr., Indianapolis & Ohio Valley Traction Co., informs us that the preliminary survey is completed for proposed electric line from Rockport to Cannelton. Notice of opening of bids will be given after estimates are completed. Previously noted.

NEW ALBANY, IND.—We are informed that Southern Indiana Traction Co. is making surveys for a traction line from this place to Corydon.

VINCENNES, IND.—The Vincennes Street Ry. Co. will double-track its line as soon as weather permits. Improvements to rolling stock are also to be made. Wm. Green, Jr., is Supt.

BEDFORD, IND.—The work of surveying the line of Bedford Street Railway and the extension to Ooleetee City has been completed, and the road will now be constructed as speedily as possible.

ANN ARBOR, MICH.—The Toledo, Ann Arbor & Detroit Electric Ry. Co. has been granted a franchise by City Council upon condition that it file a $10,000 bond that it will complete road between Ann Arbor and Toledo within 21 months. John D. Zable, Gen. Counsel, states that money to build road has been secured, and that work will begin as soon as weather permits.

HILLSBORO, ILL.—City Council has granted to the St. Louis & Northeastern Ry. Co. a franchise for the construction and operation of an electric railway over several streets in Hillsboro. The company is preparing to build an interurban line to Litchfield, and the line will ultimately be extended to East St. Louis.

DES MOINES, IA.—We are informed that the proposed electric interurban railway between Des Moines and Creston, mentioned in preceding issue of Engineering News, is still in the financing stage, and much is to be done before any contracts are contemplated. Est. cost, $1,620,000. A. E. Parks, of Chicago, is Supt. and Atty.

NIOBRARA, NEB.—It is reported that J. S. Emerson, of St. James, Neb., has proposed to the Commercial Club of Sioux City the construction of an interurban line from Niobrara to Sioux City.

WACO, TEX.—Secretary of Business Men's Club writes us that no definite steps have yet been taken with the construction of electric railway from Waco to Mexia, mentioned in previous issue of Engineering News.

HOUSTON, TEX.—We are informed that David M. Duller, City, has been engaged as Chief Engineer for the Houston-Galveston Electric Ry. Co. which proposes building a high speed electric railway between Galveston and Houston, a distance of about 50 miles. Surveys have been started, and when completed the company will be ready to figure upon the installations of necessary plant and equipment of road. Frank P. Read is Pres., Houston. Previously noted.

CHICKASHA, IND. T.—We are informed that no charter has yet been granted for the proposed electric railway here. The application is now pending before City Council. M. M. Beavers, Mayor.

## LIGHT, HEAT AND POWER PLANTS.

*The names of parties awarded contracts are printed in capital letters.*

BANGOR, ME.—It is announced that the Bodwell Water Power Co. will commence in the spring the construction of a large concrete dam at Gilman Falls and at the same time work will be commenced on another concrete dam at the Old Town falls extending across to Milford. A powerhouse will be erected on the Milford shore at the end of the dam, capable of generating 6,000 HP. In connection with these improvements, a paper-mill will be erected below the present mill on the Old Town side of the river. These improvements and extension of the plant of the Waterie plant, for gas-holder with steel reinforced concrete ter Power Co. will cost about $700,000. W. P. Hubbard is Secy. Noted on Feb. 23.

HOLYOKE, MASS.—Bids are asked until March 20, it is reported, by W. H. Snow, Mgr. municipal gas and electank; holder to have capacity of about 750,000 cu. ft. A. W. Darby is Ch. Engr.

LACONIA, N. H.—Specifications for street lighting are on file at New York office of Engineering News. Bids will be received, as advertised in Engineering News, until March 27 by the Mayor for street lighting for a period of 10 years. J. G. Quimby, Chn. Street Lighting Com., Lakeport, N. H.

GLASTONBURY CONN.—J. S. Williams, Pres. Glastonbury Power Co., has stated that engineers are at work upon specifications which are not yet completed for work in connection with the construction of its power house and dam. Contracts have not been let. Estimated cost of work is $175,000.

NEW YORK, N. Y.—Mayor George B. McClellan has approved the ordinance providing for issuance of $100,000 of corporate stock for placing electrical conductors underground in Brooklyn Borough, under jurisdiction of Fire Department.

NIAGARA FALLS, N. Y.—The Niagara Falls Hydraulic Power & Mfg. Co. will soon resume operations on the construction of its proposed new power station in the gorge, north of its present power house. The site has been partly excavated and on top of the high bank the forebay excavation is partly completed. John L. Harper is Ch. Engr.

ONEIDA, N. Y.—THE MADISON COUNTY GAS & ELECTRIC CO., of Oneida, has secured the contract for lighting the streets with electricity, at $6,965.

CAMDEN, N. J.—Bids are asked until March 20, 8 p. m., for electric lighting of city hall. C. H. Turner is Chn. Property Com.

BALTIMORE, MD.—Contracts have been awarded as follows for rebuilding Pratt St. power house of the United Railways Co.: ROSSITER & McGOVERN CO., New York, removal of old machinery; L. M. SHOEMAKER, Philadelphia, structural steel work of new building; MORGAN ENGINE CO., Alliance, O., 50-ton electric crane; WESTINGHOUSE CO., 500 KW. generator; McINTOSH & SEYMOUR CO. Auburn, N. Y., 7,500 HP. engine. Total cost, about $250,000.

BALTIMORE, MD.—THE CONSOLIDATED ELECTRIC LIGHT & GAS CO., a new company, has been awarded city lighting contract on March 8, at $67.49 per lamp. Robert J. McCuen is Supt. Lamps & Lighting.

The Baltimore Electric Power Co. has filed a mortgage for $7,500,000, which is a first lien on its new plant now being built on Gould St., near Port Covington, and a lien after the other prior mortgages on the plant and franchises of the Maryland Telephone Co. Proceeds of bonds is to be used as follows: To build the new plant, $2,245,000; to retire first mortgage bonds of the Maryland Telephone Co., $1,000,000; to retire the general mortgage bonds of same, $1,155,000; to retire ground rent of Maryland Telephone building $100,000; held for future extensions of both plants, $3,000,000; total, $7,500,000.

NORFOLK, VA.—The Norfolk Ry. & Light Co. is reported to have awarded to the SOUTHERN CONSTRUCTION CO. the contract for installing a conduit system. Cost, about $100,000. J. P. Keeny is Ch. Engr. Ry. Co.

MARTINSVILLE, VA. — Contract has been given to GENERAL ELECTRIC CO., of New York for equipping electric plant here. Cost, $20,000.

HUNTINGTON, W. VA.—As announced last week, the NATIONAL TUBE CO., of McKeesport, Pa., has contract for 75 miles of pipe for the United States Natural Gas Co. It is announced that contract for all other pipe has been obtained by the SOUTH CHESTER TUBE CO., Chester, Pa. Construction work will be done by BOOTH & FLINN, LTD., of Pittsburg. Construction of lines in the entire field will be as follows: 75 miles of 16-in. steel pipe, 15 miles of 12-in. iron pipe, 25 miles of 10-in. iron pipe, ten miles of 8-in. iron pipe, ten miles of 6-in. iron pipe. Pipe is to be laid in two sections. The first will begin at the end of the present 36-in. main of the company at Greenleaf station, and will extend for 40 miles southwest through Washington and Greene counties to Littleton, W. Va. In this first section the pipe is to be of the plain end steel pipe with Dresser couplers. From Littleton the line will extend for another 35 miles, passing through Wetzel county and into Doddridge county. This section will be constructed with Matthewson joints reinforced by Dresser clamps. From the end of the 16-in. lines, there is to be 15 miles of extra heavy screw joint 12-in. iron pipe, which will carry the line into Lewis county, this extension connecting the new system with the existing system of field mains that was completed last year. From the end of the 12-in. line there will be another 15 miles of 10-in. line through Lewis county, reaching the producing wells of the company in that field.

CHARLOTTE, N. C.—It is reported that the Mountain Island Power Co., which embraces the Mountain Island Mills, 1,100 acres of land and the water rights along the Catawba River for several miles, has been secured by a party of capitalists headed by Dr. W. G. Wylie, 215 West 43d St., New York. The purchase price is said to be $30,000.

CHEROKEE, GA.—Gen. A. J. Warner, of Gainesville, Ga., and associates have been granted a charter incorporating the Etowah Power Co., with a capital of $10,000, privileged to increase to $1,000,000. Company will build a dam 600 ft. long and 30 ft. high across the Etowah River, about four miles below Canton, which probably will be completed during the year. A. J. Warner, Pres.; E. P. Kirby, vice-Pres.; W. H. Slack, Secy.; Col. P. P. DuPre, of Canton, General Counsel; W. A. Carlisle, Ch. Engr., and F. P. Catchings, Electrical Engr.

GREENWOOD, S. C.—A. J. Sproles, Supt. Water & Electric Light plant, advises us that city will receive bids on the following apparatus f. o. b. Greenwood, S. C. Specifications and guarantees to accompany each bid: One 180 KW. revolving field, 3-phase 60-cycle 2,200 x 100 volts A. C. belted generator; one each 60 and 120 KW. revolving armature, single-phase, 60-cycle, 2,205 x 100 belted generators; 70 1 200 c. p. series A. C. arc lamps complete, outdoor type, one-half grose clear inner globes extra; 48 clear outer globes extra; one 100-light, constant-current transformer, with two leads for two circuits complete, with meter and switchboard. Separate prices on each generator and lamp outfits are wanted.

ABERDEEN, MISS.—Bids are asked until March 22 by J. M. Acker, Mayor, for laying 7 miles c. i. pipe, building brick power house, masonry reservoir, deep well, air compressor, 18 x 42 simple Corliss engine, setting machinery; five miles 8 to 15-in. sewers as advertised in Engineering news. (See under Water-Works on March 9.)

HOUSTON, MISS.—Plans and specifications are reported wanted for electric lights and water-works, for which $13,500 of bonds recently were voted. J. M. Griffin is Town Clk.

NEW ALBANY, MISS.—W. F. Wilcox, C. E., of Jackson, Miss., has prepared plans and specifications and will superintend the construction of the electric light and water-works plant. Bids are asked until March 28. (Advertised, Engineering News.)

BRISTOL, TENN.—City has granted franchise to Edward Durham, of Philadelphia, Pa., and William B. Cutler, of Buffalo, N. Y., to construct and operate an electric light plant, according to newspaper report.

TOLEDO, O.—It is stated that the new power-house of the Toledo, Port Clinton & Lakeside Railway will cost $30,000. The machinery will cost $120,000. The building will be 100 x 90 ft., of brick construction. Plans are now being drawn and contracts will soon be awarded. T. R. Wickenden is Ch. Engr.

BELLEFONTAINE, O.—City will hold a special election on April 10, for purpose of voting on the proposition to issue $50,000 of bonds for improving and enlarging the electric light plant. Wm. Wright is Ch. Engr.

WARREN, O.—The county commissioners are reported to have retained Albert L. Allen, of Cleveland, to prepare plans and specifications for an electric lighting and water-works plant for the Trumbull county jail and court house. Bids will be asked soon.

ARCANUM, O.—City has voted to issue $381 000 of bonds for an electric light plant and water-works, we are informed. P. H. Porter, Clinton, Ky., is Engr. A. E. Cline is Mayor.

MUNCIE, IND.—W. F. Warren, Supt. city electric light plant, states that it is proposed to construct a new central lighting plant at once, to cost $120,000.

ST. CLAIR, MICH.—Herbert W. Brown, Cy. Clk., informs us that city may issue bonds for installation of larger pumps and a larger boiler in present light plant. Question of issuing these bonds will be voted upon at April election.

MARINETTE, MICH.—Contracts will be awarded soon for a new gas plant. Edward Daniell is Mgr. of the Menominee & Marinette Light & Traction Co., which will build the plant.

DETROIT, MICH.—Bids are asked until March 31 for the care of all the post lights now in Superior Bay, St. Louis Bay and River, Minnesota, and Wisconsin and others for one year from July 1, 1905. Herbert Winslow is Inspector.

JOLIET, ILL.—A large plant from which gas will be piped to 20 cities and villages near Chicago is to be constructed at Joliet by the Western United Gas and Electric Co., of Aurora, according to a statement made by President I. C. Copley of the company. Work on the plans for the plant will be begun at once.

GALESBURG ILL.—Bids are asked until March 20 by the City Clerk for furnishing material and erecting a power house and stack for Board Education. J. Grant Beadle, Galesburg, is Arch.

ALMA, NEB.—A. Billings, City Clk., states that bids will be received about April 15 for the construction of waterworks and an electric light plant. Cost, $20,000. (See under Water-Works.)

ST. CLOUD, MINN.—The Public Service Co., of St. Cloud has been reorganized, and a total bond issue of $500,000 authorized. Of this $70,000 will be used in the building of a new gas plant and $230,000 for improvements in the electric light and street railway plants. It is the intention to dissolve the street railway receivership and then incorporate it with the Public Service Company. George Marvin is Ch. Engr.

ANTHONY, KAN.—W. K. Palmer, 718 Dwight Bldg. Kansas City, Mo., has been engaged as engineer for the city in connection with the construction of a municipal electric light plant. Plans and specifications are now being prepared.

WAVERLY, KAN.—W. K. Palmer, 718 Dwight Bldg., Kansas City, Mo., will prepare plans, etc., for the municipal electric light plant which will be constructed by city in conjunction with the proposed new water-works.

BURLINGTON, KAN.—City has granted a franchise to the Ohio-Kansas Oil & Gas Co., to pipe gas into and in this city.

ST. LOUIS, MO.—Edward G. Cowdery, Mgr., will extend the Laclede Gas Light Co.'s system into southwestern portion of the city and into North and South St. Louis. Estimated cost, $2,000,000.

HOUSTON, TEX.—The charter of the Houston Gas Co., with a capital stock of $1,200,000, has been filed. The purpose of the company is to manufacture and supply gas, light, heat and electric motor power. The board of directors for the first year are Thomas W. House, James A. Baker, Jr., Charles Dillingham and James H. B. House, all of Houston; Charles A. Hanna, Charles W. Beall, of New York, and James L. Parson, of Montclair, N. J. This is a reorganization of old company. Improvements are contemplated.

CARLSBAD, N. MEX.—The Utilities Company has awarded to GEORGE BRUCE, of Carlsbad, the contract to build a dam of concrete on solid rock in the Pecos River, for furnishing power for electric light and power plant. The contract price is $8,000.

SAN DIEGO, CAL.—The Gas and Electric Light Committee of the city council has recommended that the Board of Public Works advertise for bids for lighting the city for terms of one, two, three, four and five years, as the city may decide.

SAN FRANCISCO, CAL.—The San Francisco Coke & Gas Co. will issue $2,500,000 of bonds. They are to be underwritten by the Knickerbocker Trust Co., of New York. Company is preparing to construct a gas plant in opposition to the San Francisco Gas & Electric Co. Leopold Michels is Pres.; Leopold Wallach, 33 Wall St., New York, is representative.

SAN FRANCISCO, CAL.—We are informed that the California Gas & Electric Corporation will furnish the United Railroads of San Francisco company with all power for 20 years. Corporation is building a power house just over the San Mateo county line on the bay shore. The foundations are said to be among the most massive ever built on the Pacific coast, and will require about 5,000 cu. yds. of concrete. The contractors are RICHARD KEATINGE & SONS. F. D. Gallaway is Consulting Engr.

CAMPBELLTON, N. B.—It is stated that capitalists connected with the Electro-Manganese Co., including Barton E. Kingman, 542 Fifth Ave., New York, and Frederick Sayles, of Providence, R. I., have deposited $50,000 with the government of New Brunswick as a guarantee that a large electric power plant near Campbellton, N. B., will be erected. Estimated cost is $3,000,000 to $4,000,000. The project includes not only the manufacture of ferro-manganese at the falls, but also operation of pulp, paper and saw mills, the operation of the International Railroad by electricity and the transmission of electric power down the St. John River Valley to be utilized for lighting and manufacturing as far as St. John. The power is to be obtained from the Grand Falls. The work of development is to begin early this summer.

DEUX RIVIERES, ONT.—H. H. Dewart, Joseph Kilgour and Charles Mitchell, of Toronto, and Welland D. Woodruff, of St. Catharines, have been granted a concession by legislature by which they lease water power rights on the Ottawa River, situated at Deux Rivieres, for a period of ten years, under certain conditions. The area, which includes a portion of the bed of the Ottawa River, as far as the inter-provincial boundary lines, amounts to about 65 acres in all. It dates from Jan. 31, 1905, and the lessees are required within two years to develop not less than 2,000 HP. and use it for some industrial purpose. If they cannot use it themselves they are required to dispose of it to others who will.

TORONTO, ONT.—City Engineer estimates that cost of installing a municipal electric lighting plant, with an alternating current sufficient to keep up 1,500 arc lights, would be $638,000, which includes buildings, but not land. If power were obtained from Niagara Falls, the cost of lighting to the city would be $475,000. The estimate provides for placing the wires underground in the district between Parliament and Bathurst Sts., and Bloor St. and the Bay.

## BRIDGES.

*The names of parties awarded contracts are printed in capital letters.*

NEW YORK, N. Y.—We are informed that the contract for construction of lattice railing on Williamsburg bridge was awarded to W. D. BAYLEY, of Springfield, O., for $18,350.

GOUVERNEUR, N. Y.—Bids are asked until March 20 for construction of bridge at Gouverneur. Plans and specifications at office of H. Walter Lee, Town Clk.

ELMIRA, N. Y.—We are informed that the city has petitioned the Legislature for permission to issue $55,000 in bonds for constructing a bridge at Lake St. and that the bill will probably be passed soon. Fred. Leach is Cy. Engr.

NEWARK, N. J.—It is probable that a new bridge will soon be erected jointly by Essex and Hudson Chosen Freeholders on Plank Road over Passaic River, to cost about $300,000.

SCRANTON, PA.—E. D. Reid, Engr., informs us that the Scranton Ry. Co. does not propose to build any bridges this year.

POINT PLEASANT, PA.—The contract for rebuilding bridge over Delaware River between Point Pleasant and Byram was let to the NEW JERSEY BRIDGE CO., of Manasquan, N. J., for $14,740.

READING, PA.—We are informed that plans will be advertised and bids taken in the near future by County Commissioners for constructing a concrete arch or girder bridge in Douglas Township. Plans for Tulpehocken bridge will be prepared in about a month. Dreibelbis & Co., 548 Court St., Reading, are Design. Engrs.

LAWRENCEVILLE, VA.—Bids are asked by County Commissioners until March 18 for a steel span, 140 ft., with 12-ft. roadway, on cylinder piers. Address J. P. Atkinson, Comr., McKenney, Va.

ATLANTA, GA.—Bids are asked by Mayor and General Council until April 3 for completion of Edgewood Ave. bridge, to be constructed with reinforced concrete, about 400 ft. in length and 60 ft. in width. R. M. Clayton, Cy. Engr. (Advertised, Engineering News.)

BELEN, MISS.—The bill authorizing this county to construct bridges across Coldwater River and the Tallahatchee River has passed the Senate.

WINNSBORO, LA.—The Police Jury has awarded contracts for five steel bridges to the TEXAS BRIDGE CO., of Dallas, Tex.

SHREVEPORT, LA.—City Council at its next meeting will decide upon location of drawbridge to be built for traffic. This bridge has been authorized by Congress, and will be about 1,000 ft. long. Andrew Querbes is Mayor. Wilkie Woodward is Cy. Engr.

DAYTON, O.—The contract for new bridge over Miami River between North Dayton and Riverdale was awarded to NEWCASTLE BRIDGE CO., of Indianapolis, Ind., for $47,800.

GRAFTON, O.—The Cleveland, Cincinnati, Chicago & St. Louis R. R. Co. has prepared plans for a double-tracked bridge which will be built over Black River at this point. The bridge will probably be a single-span structure, with concrete abutments and steel superstructure. Cost, $25,000. G. W. Kittredge is Ch. Engr., Cincinnati.

AKRON, O.—The city has engaged Ed. F. Landor, of Canton, O., to supervise the making of plans of Exchange St. viaduct. John W. Payne is Cy. Engr.

DAYTON, O.—Bids are asked by Ed. Philipps, Cy. Audr., until April 1 for sale of bonds in the amount of $37,000 for the purpose of providing money to build a bridge across Great Miami River at Herman Ave.

COLUMBUS, O.—Bids are asked by County Commissioners until March 30 for construction of several bridges. L. E. Jones, Co. Audr.

ALBION, IND.—We are informed that the BROOKVILLE BRIDGE CO., of Brookville, O., was awarded the contract by County Commissioners for constructing three bridges, at a total cost of $923. John L. Henry, County Audr.

WABASH, IND.—J. A. ROSS, of Frankfort, Ind., has been awarded the contract for erection of a bridge of Kann truss system, at Wabash.

FLORA, ILL.—A contract for erection of a steel bridge over Coon Creek was awarded by Highway Commissioners to VINCENNES (IND.) BRIDGE CO.

SPRINGFIELD, ILL.—Frank H. Hamilton, Cy. Engr., informs us that the ordinance for proposed viaduct on Eastman Ave. is now being considered in City Council. Est. cost, $34,000.

CHICAGO, ILL.—John Ericson, Cy. Engr., writes us that the following bridges have been appropriated for this year: Archer Ave., North Ave., North Halsted St., Indiana St., Erie St., Chicago Ave., Kinzie St. and Torrence Ave. In addition, the old 18th St. bridge is to be removed to South Western Ave. Of these bridges the contract for Archer Ave. has already been let. North Ave. will be advertised within the next 15 days. Plans are being prepared for Indiana St. and North Halsted St. These two bridges will probably be commenced this year.

CEDAR RAPIDS, IA.—It is reported that bids will be received by Public Improvement Committee until March 24 for erecting a steel-concrete bridge on Second Ave.

ST. PAUL, MINN.—E. J. Pearson, Ch. Engr., Northern Pacific Ry. Co., informs us that the reconstruction of Columbia River bridge at Pasco is only partial, and material for this work will be furnished by AMERICAN BRIDGE CO.

LINCOLN, NEB.—A contract for $60,000 worth of bridge steel was awarded by Omaha, Lincoln & Beatrice Ry. Co. to the AMERICAN BRIDGE CO., March 1.

VALLEY CITY, N. DAK.—We are informed that the County Commissioners awarded, March 4, to A. Y. BAYNE & CO., of Minneapolis, Minn., the contract for constructing two steel bridges, for $3,840 and $2,860 respectively. T. M. Gunderson, County Audr.

LANGDON, N. DAK.—Bids are asked by County Commissioners until April 5 for construction of a steel or combination bridge over Pembina River. The structure is to be 100-ft. span with a 20-ft. roadway, tubular steel foundation, and pile approaches, 15 ft. wide, at each end of bridge. Robt. Work, County Audr.

ALEXANDRIA, S. DAK.—Bids are asked by County Commissioners until March 22 for constructing a steel bridge, 122 ft. span, over James River, between Hanson and Hutchinson Counties; also for constructing steel bridges that may be ordered by County Commissioners during year 1905. C. E. Twamley, County Audr.

ALBUQUERQUE, N. MEX.—Bids are asked by County Commissioners until March 18 for the repair of bridge crossing Rio Grande at Barelas. James A. Summers, County Clk.

MARKED TREE, ARK.—A contract has been awarded the ILLINOIS BRIDGE CO., Monadnock Blk., Chicago, Ill., to build a $15,000 bridge over St. Francis River at Marked Tree.

COLORADO SPRINGS, COLO.—We are informed that no appropriation has yet been made for East Uintah St. bridge. E. W. Chase, Cy. Engr.

WENATCHEE, WASH.—Plans have been prepared for a suspension bridge to span Columbia River. The plans call for a bridge 1,190 ft. long, the main span 550 ft., and the two outside spans 320 ft. each. Address Secretary of Commercial Club.

NORTH YAKIMA, WASH.—We are informed that the contract for construction of new bridge over Natches River, near Painted Rocks, has been awarded, Feb. 23, to C. E. LUM, City, for $6,324.

PORTLAND, ORE.—Bids are asked by County Commissioners until March 22, noon, for work on approaches to Burnside St. bridge across Willamette River, including embankments, concrete retaining walls, plank roads and sidewalks, etc., according to plans and specifications on file in office of F. S. Fields, County Clk.

SAN FRANCISCO, CAL.—The Board of Public Works has directed the Santa Fe Ry. Co. to construct a steel wagon and foot bridge on 20th St. R. B. Burns is Ch. Engr., Los Angeles.

TOMBSTONE, ARIZ.—We are informed that the MIDLAND BRIDGE CO., of Kansas City, Mo., is the lowest bidder for constructing two steel bridges across San Pedro River, at $4,428 and $2,923 respectively. J. J. Bowen, Chn. Bd. of Supv. Bids opened March 1.

WELLAND, ONT.—Bids are asked by Robt. Cooper, County Clk., until March 28 for constructing a bridge across Welland River. The substructure is to be of concrete and superstructure of steel. Bids may be submitted separately on substructure and superstructure.

ST. MARY'S, ONT.—L. Harston, Town Clk., informs us that nothing has yet been done towards securing plans, etc., for bridge over Trout Creek, as by-law has not been submitted, and nothing will be done until it is submitted.

WINNIPEG, MAN.—It is stated that bids will be received by Canadian Pacific R. R. Co. until March 25 for constructing a number of arches, culverts and bridges. Plans, etc., at superintendent's officers at Fort William Brandon, Moose Jaw and Winnipeg. Address J. E. Schwitzer, Div. Engr., Winnipeg.

## BUILDINGS.

*The names of parties awarded contracts are printed in capital letters.*

PORTLAND, ME.—Bids are asked until April 5 for construction of five public buildings, including electric wiring and plumbing, at Fort McKinley, Me. Capt. A. W. Yates, Q.-M.

ATTLEBORO, MASS.—Bids are asked until March 27, 5 p. m., for erecting a library and heating and ventilating it. McLean & Wright, 110 Tremont St., Boston, are Archs. C. S. Holden, M. D., is Secy. Bldg. Com.

FALL RIVER, MASS.—Al. Haynes, Mgr. of Casto Theater, will erect a new theater on North Main St., 125 x 25 ft. It will be extensively fitted and decorated.

CAMBRIDGE, MASS.—Masonic hall association will erect an $80,000 Masonic building.

BOSTON, MASS.—James A. Beal Estate will erect the Manufacturers' Building at Washington St. North, Causeway and Medford Sts. Hill & James, 35 Congress St., are Archs. Estimated cost, $200,000.

BOSTON, MASS.—Bids are asked by Schoolhouse Commissioners, 120 Boylston St., until March 27, for erecting and completing (including heating and ventilating, electrical and plumbing work) primary schoolhouse, Lewis District, Perrin St., Roxbury. Schweinfurth & Craig, Archs., 53 State St.; French & Hubbard, Engineers, Albany Bldg., Boston.

BOSTON, MASS.—Contract for a nine-story mercantile building for the Boston Wharf Co., Boston, brick and steel construction, fireproof floors and roof, to cost approximately $150,000, has been let to THE FOSBURGH CO., 6 Beacon St., Boston.

SALEM, MASS.—George T. Adams, 448 Essex St., Lawrence, Mass., has drawn plans, it is reported, for proposed county court house. Estimated cost is $300,000. Details have not yet been decided. Wallace E. Bates is Chn. County Comrs.

PROVIDENCE, R. I.—Thornton & Thornton, 152 Weybosset St., are architects for an addition to the court house. Five stories, 104 x 108 ft.; brick and stone. Probable cost, $300,000.

ANSONIA, CONN.—Bids are asked by H. A. Peck until March 23 for erection, complete (except plumbing), of eight-room brick schoolhouse. Wm. D. Johnson, Arch., Hartford, Conn.

BRIDGEPORT, CONN.—The Bridgeport Steeplechase Co. has been incorporated with a capital of $250,000 to operate places of amusement. The incorporators are: Stephen Noonan, Brooklyn, N. Y., and C. H. Fleming and J. A. Eldred.

NEW HAVEN, CONN.—An architect is to be commissioned to prepare plans for proposed Yale library addition. Prof. John C. Schwab may be addressed.

NEW HAVEN, CONN.—Bids will be received until April 4 by Brown & Von Beren, Archs., for a two-story police station, 38 x 40 ft.

ALBANY, N. Y.—Bids are asked until Mar[illegible] noon, for plumbing improvements in basement of [illegible] House. Hon. R. J. Hill, Supt. Public Bldgs.

BUFFALO, N. Y.—Contracts for equipping [illegible] Armory have been let as follows: McCARTHY BRO[illegible] FORD, electrical equipment, $89,950; MACHWIRTH [illegible]OS. & CO., air supply ducts and flues, $14,330; T[illegible] Mc-EVOY & SON, gas piping, $5,200.

FLUSHING, N. Y.—General contract for co[illegible]ion of new armory has been awarded to HUDSON [illegible]LEY CONSTRUCTION CO., Troy, N. Y. Charles [illegible]ard is Gen. Mgr. of company.

SYRACUSE, N. Y.—Gaggin & Gaggin, Arch[illegible]iver-sity Block, have drawn plans for new Y. M. [illegible]uild-ing. Committee will raise $212,000 for work; $[illegible] additional will be given by Benjamin Toucey.

NEW YORK, N. Y.—Plans have been filed [illegible]illan & Fischer, Archs., 20 West 31st St., for [illegible]story flats, each 50 x 87 ft., on 117th St., for Lewis[illegible]ravis. Cost, $120,000.

By A. S. Gottlieb, Arch., 156 Fifth Ave., for [illegible]story brick factory and store, 25 x 197 ft., on 41st an[illegible]sts., west of Sixth Ave., for C. C. Shayne. Cost, $[illegible].

By Bernstein & Bernstein, Archs., 72 Trinit[illegible] for three 6-story brick flats, 44 x 86 ft., at Mac[illegible]dam Road and 151st St., for Miller & Mofsenson[illegible]ast 113th St. Cost, $125,000.

JAMAICA, N. Y.—The Otillie Orphan Asylu[illegible] be erected in the Lawson tract, will cost about $[illegible].

BROOKLYN, N. Y.—Eastern District branch [illegible]ook-lyn Bureau of Charities, William 1. Nichols, S[illegible] will erect a new building on Division Ave., near M[illegible] Ave.

WHITE PLAINS, N. Y.—Special committee re[illegible]ends that county erect a new $500,000 court house. [illegible]peti-tive designs may be asked; $2,500 prize is to be o[illegible] for plans accepted, $250 for second and $100 for third [illegible]ize.

NORTH TONAWANDA, N. Y.—Bids are aske[illegible] until March 27, 8 p. m., for delivering and erecting [illegible] hori-zontal tubular steam boilers, fittings, etc. John [illegible]neer is Pres. Bd. Public Works.

ITHACA, N. Y.—We are informed that new b[illegible]ings to be erected at Cornell University, for which bi[illegible] are advertised in Engineering News, will consist of four buildings, the main building and Hall of Horticulture, four stories high; the Hall of Agronomy and Agricultural Machinery, the Dairy Building, and the Stock Judging Pavilion, 60 x 90 ft., inclosed in a rectangular area of about four acres. Buildings will be constructed of brick. E. L. Williams is Treas. University.

NEW YORK, N. Y.—W. H. SPELLMAN, 112 We[illegible] 38th St., was awarded contract for sanitary work, etc., at De Witt Clinton High School, at $45,411.

NEW YORK, N. Y.—We are informed that plans have been prepared by Ralph S. Townsend, 29 East 19th St., for a 6-story hotel, 57 x 108 ft., to be erected at 12[illegible] St. and Hudson St. W. R. H. Martin, Hotel Martinique, is owner. Building will be of fireproof construction. Estimated cost is $150,000.

An addition will be built to riding academy building at 7-15 East 58th St., we are informed. Bradford L. Gilbert, 50 Broadway, is Arch. Estimated cost, $100,000.

It is reported that Randolph Guggenheimer, 725 Broadway, will erect a 12-story office building on 24th st., east of Sixth Ave.

THE BUCKLEY REALTY CO., Times Bldg., we are informed, has contract for additions to School 16, Boro. Richmond, at $113,000.

Charles E. Birge, 6 West 31st St., has started plans for a 10-story building for Styles & Cash. Building will be erected at 135 West 14th St.

NEW YORK, N. Y.—Bids are asked until March 27, 11 a. m., for general construction of School No. 6 on Baltic and Warren Sts., Boro. Brooklyn. C. B. J. Snyder is Supt. School Bldgs.

Bids are asked until May 9 by James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C., for mechanical equipment for U. S. custom-house in New York. Cass Gilbert, 79 Wall St., is Arch.

Bids are asked until May 8 by James Knox Taylor for the interior finish of the custom-house.

We are informed by W. J. Pattison, Publisher, "Evening Post," 206 Broadway, that Robert D. Koln, 170 Fifth Ave., Arch., is now working on plans for proposed new "Post" building at 20-24 Vesey St.

NEW YORK, N. Y.—Bids were received on March 11 for construction of concrete and steel prison at Navy Yard, Charles Meads & Co., 220 Broadway, New York, were lowest bidders, at $50,730, on Item 1; (2) also lowest bidder on items 2 and 3, at $46,840 and $43,900, respectively. North-eastern Construction Co., 949 Broadway, Item 4, $56,000. Same company also lowest bidder on items 5 and 6, at $51,000 and $46,855 respectively.

ALBANY, N. Y.—State Armory Commission has awarded following contracts for construction of armory at Flushing, L. I.: Construction, HUDSON VALLEY CONSTRUCTION CO., of Troy, N. Y., $60,925; heating, CLEGHORN & CO., Boston, Mass., $3,200; plumbing, JOHN L. FITZGERALD, Albany, N. Y., $2,860; electric light wiring and fixtures, JOHN P. KELLY, Schenectady, N. Y., $3,690.

TRENTON, N. J.—Legislature has passed bill which provides for a new wing to state prison. It will cost $250,000.

JERSEY CITY, N. J.—Perlmutters Dry Goods Co., [illegible] Newark Ave., will erect a new building at 175-177 Newark Ave. Joseph and Harry Perlmutter are members of firm.

JERSEY CITY, N. J.—Board of Education is reported to have plans under consideration for rebuilding school No. 6. John T. Rowland, 15 Exchange Pl., is Arch.

LEWISBURG, PA.—A library and dormitory are under way at Bucknell University, we are informed. Prof. F. Burpee is Supt. Bldgs.

PITTSBURG, PA.—It is announced that Pittsburg will have a new branch of the Carnegie Free Library downtown. Mr. Carnegie has promised $1,000,000, according to press report.

MYERSTOWN, PA.—New buildings are planned, which will cost $100,000, at Albright College. Trustees have purchased site.

WASHINGTON, D. C.—Joint commission on the extension and completion of the United States Capitol has submitted its report to Congress. It is composed of Senators Geo. P. Wetmore (Rhode Island), Arthur P. Gorman (Maryland), and Russell A. Alger (Michigan), and Representatives Joseph Cannon (Illinois), William Hepburn (Iowa) and James D. Richardson (Tennessee). Commission recommends: The extension of the central east front of the Capitol. Refacing with white marble of such portions of the present west front as are now built of sandstone, the present design to be reproduced in every detail. Replacing with white marble the two broad flights of steps on the west of the Capitol, from the upper terrace to the foot of the embankment where the [illegible]

den begins Placing a sculptural group in the House pediment to correspond in character, size and finish with the sculptu work now existing in the pediment of the Senate wi The estimated cost will be: East front extension, s reproducing the west front in white marble, $ 000; reproducing the west terrace steps in white mar $50,000; sculptural treatment to the east pediment House wing, $35,000; total, $1,330,000. Carrere a stings, 28 East 41st St., New York, are consulting chs.

WASH TON, D. C.—Bids are asked until March 29 for wood window frames, glazed sash and interior window trim building for Army War College. Capt. John Stephen well, U. S. Engrs. (Advertised, Engineering News.)

BALT RE, MD.—Baltimore Aerie 59, F. O. Eagles, has app d a committee to consider plans for a new $100,000 house in this city. Frederick C. Schanberger is c committee.

THE EL CONCRETE CONSTRUCTION CO. has been aw d contract for the reinforced concrete work on the Mer nts' Hotel, to be erected on the old Howard House s CHARLES GILPIN is the general contractor. Previous noted.

Board Awards, we are informed, has awarded contract to W. & G. H. Thomas, Vickers Building, German St. for the construction of the Eastern High School building t Broadway and North Ave. Simonson & Pietsch, chs., 202 East Lexington St. Previously noted.

Trustees of the Egenton Asylum, Madison Ave. and Hoffman St., have decided to erect a number of stone, brick and frame cottages, it is reported, on the new site of the institution, on Cedar Ave. in the suburbs of Baltimore. Cost, $100,000. Douglas Wylie is Pres.

John S ridges, 26 South Charles St., has commissioned George N Mackenzie, 3d, Arch., Builders' Exchange, to prepare plans and specifications for a 7-story building to be located at 22 West Baltimore St.

As announced last week, bids are asked until March 22 for construction of municipal market. It will be located on Centre Market Space. Simonson & Pietsch, Hoen Bldg., are Archs. A published account states that proposals will be received in two parts, one for the foundation work and the other for the superstructure. Market will be two stories high, 135 × 200 ft.; brick, with granite base and Indiana limestone or terra cotta trimmings; foundation to be of spread-concrete system or concrete-caisson system; steel-frame construction fireproofed with concrete; tin roofing; reinforced concrete construction for stairs, toilets, offices and corridors; ornamental iron; trussed roof; 26 steel rolling doors; galvanized iron skylight; 25 dumbwaiters and speaking tubes; electric wiring and fixtures; sanitary plumbing; heating system connected with outside supply. Plans and specifications may now be obtained from the office of the inspector of buildings, City Hall, by depositing certified check for $50. Bids will be received by Harry F. Hooper, City Register.

FORT WASHINGTON, MD.—Bids are asked until March 27 for construction of one single set of non-commissioned staff officers' quarters, and an ordnance storehouse (both frame), at Fort Hunt, Va. F. L. Dengler, Q. M.

BALTIMORE, MD.—R. Brent Keyser, Pres. Bd. Trustees, Johns Hopkins University, advises us that it is not intended to ask for bids on buildings yet in connection with development of Homewood, the future site of Johns Hopkins University. Plans are under consideration for general development of the grounds. Temporary address is 14 East Mt. Vernon Pl.

OAKLAND, MD.—Bids are asked by A. G. Ross, Clk., until April 12 for building a two-story jail and sheriff's residence, 42 × 68 ft. and 45 × 50 ft., respectively, for Garrett county, at Oakland. Brick and stone. Holmboe & Lafferty, Clarksburg, W. Va., are Archs.

MARION, VA.—Bids are asked until April 12 for the erection of Smyth County court house. Frank P. Milburn, Arch., Columbia, S. C. Address J. P. Sheffey, Jr., Secy. Building Com., Marion, Va.

RICHMOND, VA.—C. P. Walford, clerk and supervisor, Richmond, Va., will receive competitive designs until April 17 for a new high school building. All designs to be accompanied by plans and general specifications.

CHARLOTTESVILLE, VA.—It is reported that Andrew Carnegie has offered University of Virginia a gift of $500,000 upon condition that equal amount be raised by the University. The $1,000,000 would be used to provide new buildings and equipment for the University, including a library.

HATTERAS, N. C.—Congressional committee has favorably reported upon a bill authorizing the construction of a light-house on Outer Diamond Shoals. Bill provides that Capt. Eels, a marine contractor, be paid $750,000 should light-house stand a test of five years on the shifting sands at Hatteras.

BIRMINGHAM, ALA.—The Woodward Construction Co., W. H. Woodward, Pres., has purchased site, it is said, at Fourth Ave. and 20th St., on which to erect a 12-story steel-frame hotel. Cost, about $625,000.

MOBILE, ALA.—Board of Revenue will issue $200,000 of bonds for purpose of building a new jail and for improvements at court house.

NASHVILLE, TENN.—THE MARSHALL-BRUCE CO. will erect a new $75,000 building on Fourth Ave., North. J. H. Yeaman, 123 North Cherry St., is Arch.

NEW ORLEANS, LA.—The Illinois Central Ry. Co. will rebuild docks, elevators, etc., recently burned.

DAYTON, O.—The National Cash Register Co. will erect an auditorium in this city which will cost between $300,000 and $400,000.

OBERLIN, O.—Patton & Miller, Archs., Hartford Bldg., Chicago, are preparing plans for library building, to be erected for Oberlin College. It will be built of brick and stone. Cost about $125,000. Previously reported.

MARIETTA, O.—Patton & Miller, Archs., Hartford Bldg., Chicago, are preparing plans for library building, to be erected at Marietta, O., for Marietta College. To be built of brick and stone. Probable cost, $60,000.

AKRON, O.—J. Milton Dyer, 801 Cuyahoga Bldg., Cleveland, is architect for proposed $275,000 court house for this city. Bids will be asked soon. John C. Frank is Secy. Comn.

YOUNGSTOWN, O.—The congregation of Immaculate Conception will build a $75,000 parochial school. Rev. M. P. Kinkead is pastor. William Ginther, Arcade Bldg., Akron, is Arch.

CINCINNATI, O.—W. H. ELLIS & CO., of Cincinnati, have been awarded contract for Memorial Hall, at $144,-. E. R. Montford is Chn. Comn.

CLEVELAND, O.—Bids are asked until March 27 for building an annex to Barkwill School. Bidders may submit proposals for any or all of the following items of construction: Mason work, cut-stone work, carpenter work, lath and plastering, blackboards, sheet metal work, iron and steel, painting, glass and glazing, roofing, heating and ventilating, temperature regulation, plumbing, sewers and gas fitting, fireproofing, cement and granolithic floors and base and electric wiring. Bids will also be received and considered comprising all the foregoing items in single proposals. Charles Orr, Dir.

NEWARK, O.—Bids are asked by D. M. Keller, Clk. Bd. Education, until March 27 for construction of 12-room school building.

CLEVELAND HEIGHTS (Fairmont post-office), O.—Bids are asked until March 31, noon, for completing a six-room addition to school building on Lee Road. Wm. G. Phare, Clk. Bd. Education, 402 American Trust Bldg., Cleveland.

INDIANAPOLIS, IND.—The legislature has appropriated money for the construction of buildings, as follows: Southeastern Indiana Insane Hospital, $360,000; Industrial School for Girls, $235,000; Deaf and Dumb Institute, $250,000; Epileptic Hospital, $150,000; the Morton monument, $35,000. These buildings will be erected by commissions appointed by the Governor.

DETROIT, MICH.—Legislature has passed a bill authorizing this city to issue $100,000 of bonds for the erection of a hospital for contagious diseases. Wm. H. Maybury is Comr. Previously noted.

ANN ARBOR, MICH.—Malcomson & Higginbotham, 404 Moffat Bldg., Detroit, Archs., are preparing plans for a 3-story school building for the board of education. G. J. Ray is Secy. Cost will be about $100,000.

CHICAGO, ILL.—The proposition to issue $5,000,000 of bonds for the erection of a new court house for Cook County will be submitted to the voters at the spring election, to be held April 4. Edward J. Brundage is Pres. County Comrs. Commission has recommended that a fireproof vault be constructed in connection with building.

Council has appropriated $400,000 for new building for Police Department, including Armory police station which will cost $250,000; for Fire Department, $238,000 for new stations; for new public baths, $54,000.

It is announced that the University of Chicago will erect in near future two blocks of new buildings, modeled upon the Oxford University in England. Estimated cost is $5,000,000 to $10,000,000. Dean George E. Vincent is interested.

The board of directors of the John Crerar Library has decided to erect a library building in Grant Park, just north of the Art Institute, at a cost of $1,000,000.

SPRINGFIELD, ILL.—The United Mine Workers of America will build a $300,000 office building here.

BARABOO, WIS.—Ferry & Clas, 419 Broadway, Milwaukee, will receive bids until March 29 for building the Sauk county court-house. Structural iron, stone and concrete. Cost, about $100,000.

MADISON, WIS.—The Chicago & Northwestern Ry. Co. will erect a $300,000 station here, to replace present one.

SIOUX CITY, IA.—Gordon, Tracy & Swartwout, Archs., 156 Fifth Ave., have prepared plans for two buildings to be erected here for the Haley & Long Co. and the Simmons Hardware Co. O. F. Richards is local manager for latter company. Cost, $200,000.

WATERLOO, IA.—Bids are asked by J. T. Ralston until March 20, 7.30 p. m., for erecting two libraries at Waterloo, separate bids to be taken on each, and also on heating and plumbing and electric wiring.

CLINTON, IA.—Bids are asked by Rev. J. A. Murray, rector St. Patrick's R. C. congregation, until March 30 for the erection of the new church and rectory. Schick & Roth, Archs., La Cresse, Wis. Bids will be received as follows: Basement work of church and rectory; superstructure of church; superstructure of rectory; complete work.

OMAHA, NEB.—The Woodward & Burgess Amusement Co. is having plans prepared by Fisher & Lawrie, Archs., Paxton Bldg., for a 4-story theater, at 1514 and 1516 Harney St. W. J. Burgess is interested.

ST. JOSEPH, MO.—Bids are asked until April 18 by Eckel & Mann, Archs., for erection of a brick and terra-cotta auditorium building.

ST. LOUIS, MO.—Broderick & Wind Engineering & Construction Co. has been incorporated with $200,000 capital stock by John C. Broderick, Anton Wind and James R. Broderick to do a general engineering, contracting and construction business.

The Jefferson Club will erect a $100,000 clubhouse at Grand and Laclede Aves.

KANSAS CITY, MO.—A storage building, 100 × 130 ft., five stories high, will be erected on Broadway by the Central Storage & Warehouse Co. J. P. Prescott is Gen. Mgr. It will be of cement and iron construction.

Albert Turney Arch., Massachusetts Bldg., has prepared plans for a $90,000 fire station. It will be erected on Central St., between Tenth and Eleventh Sts.

John C. Williams, Temple Bldg., Arch., has plans for proposed union passenger station. As planned it will be 1,450 × 600 ft. in size.

$1,000,000 of school bonds may be issued for new schools and for rebuilding old ones. W. E. Benson is Secy. Bd. Education.

CORSICANA, TEX.—Bids are asked until April 15 for erecting a court house, we are informed by T. L. Smith, Jr. J. E. Flanders, Dallas, Tex., is Arch. C. L. Jester is county judge.

HOT SPRINGS, ARK.—Garland County will rebuild court house and jail. Plans are being prepared by W. R. Parsons & Son Co., 317 East Fifth St., Des Moines, Ia.

PORTLAND, ORE.—Whidden & Lewis, Archs., Concord Bldg., have plans for a 4-story brick, stone and steel structure for the Concordia Club. It will cost about $80,000.

SEATTLE, WASH.—The Northern Pacific Railway Co. announces that it will immediately begin the construction of eight 6-story buildings, each of them occupying half a block. They will cost $2,000,000.

BERKELEY, CAL.—Town has voted to issue $150,000 of bonds for improvement of schools. S. D. Waterman is Supt. Schools.

SAN FRANCISCO, CAL.—R. C. BERKELEY, 191-192 Crocker Bldg., representing the Minneapolis Steel & Machinery Co., has been awarded a contract for about 500 tons of structural steel for the additional two stories of Hale Bros.' building on Market St. and the six-story annex which is to be constructed.

SAN FRANCISCO, CAL.—Bids were opened on March 8th by Capt. William Wrenn, Phelan Bldg., for the construction of a two-story and basement brick and stone barrack building at Fort Baker, San Francisco, Cal. The Wilson-Lyon Construction Co., 220 Market St., was the lowest bidder, at $41,771.

SAN FRANCISCO, CAL.—The women's clubs of San Francisco will build a $1,000,000 clubhouse.

Local capitalists have purchased, through Robert Marsh & Co., a site for an office building at Fifth and Olive Sts.

Bonds have been sold as follows: For schools, $650,000; sewers, $281,200; streets, $243,000; county jail and Hall of Justice addition, $278,400; hospital, $250,000.

WINNIPEG, MAN.—New school buildings, repairs and alteration, etc., will cost $200,000. R. H. Smith is Secy.

BRANDON, MAN.—Bids are asked until March 20 by A. E. McKenzie, Secy., for erection of four-story brick building for the Y. M. C. A.

## WATER SUPPLY AND IRRIGATION.

*The names of parties awarded contracts are printed in capital letters.*

AUGUSTA, ME.—Bids will be asked soon by Augusta Water District for construction of 8¼ miles of 24-in. water pipe. W. B. Getchell is Cy. Engr.

ORONO, ME.—We are informed that proposed waterworks of Orono Water Co., will require two 750,000 gallon pumps 400,000 gallon standpipe, 75 hydrants and 6, 8, 10 and 12-in. mains. Supply is to be obtained from Cheno Stream, 12 miles distant, and estimated cost of works is $120,000. The company will do its own construction work, and all materials will be bought by April 1. C. N. Taylor, Wellesley, Mass., is Des. Engr., and official in charge.

RUSSELL, MASS.—We are informed that contracts for proposed town water-works will not be let before April. System is to be gravity one, with some 12 hydrants and small reservoir. 10-in. iron main will be used. Estimated cost of work is $8,000 to $10,000. E. D. Parks, B. A. Silliman and H. C. Parsons are officials in charge. Durkee, Towne & White, Springfield, Mass., are Engrs.

BOSTON, MASS.—City Water Department has awarded contract to FOXBORO FOUNDRY CO., at $22,300, for furnishing iron castings. Contract for furnishing composition castings was awarded to J. H. McCAFFERTY & CO., for $5,636.

GUILFORD, CONN.—Guilford-Chester Water Co. is seeking incorporation. It is proposed to combine the water companies in Chester and Guilford, make further extensions in Essex, and extend also into Westbrook and Saybrook, supplying Fenwick.

NEW BRITAIN, CONN.—Improvements are to be made to water supply and pumping plant of P. & F. Corbin, according to reports. Percy M. Blake, Newton, Mass., Engr., is in charge of work.

MEDINA, N. Y.—Bids were opened March 1 for construction of new water-works for this place. Charles Miller & Son, Utica, N. Y., at $44,245, are reported to be lowest bidder for pipe, and L. J. Richardson, Oswego, N. Y., at $36,621, lowest bidder for construction of buildings, etc. A temporary injunction to prevent award of contract was served on W. B. Robbins, Vill. Pres.

NEW YORK, N. Y.—Following bids were received March 8 by Commissioner Water Supply, Gas and Electricity for furnishing (1) 1,050 four-nozzle post hydrants; and (2) 40 two-nozzle fire-boat connection hydrants for high pressure fire service mains: Kennedy Valve Mfg. Co., 57 Beekman St., New York, (1) $85,470, (2) $3,140; John Fox & Co., 253 Broadway, New York, (1) $81,585, (2) $3,108; Ludlow Valve Mfg. Co., 62 Gold St., New York, N. Y., (1) $101,325, (2) $3,860; Camden Iron Works, Camden, N. J., (1) $92,400, (2) $3,400; A. P. Smith Mfg. Co., Newark, N. J., (1) $108,800, (2) $3,840.

NEW MARKET, N. J.—Piscataway Water Co. has been incorporated with $10,000 capital, to maintain and operate water-works in Piscataway Township. David Lawson, New Market, is agent in charge.

BUTLER, N. J.—Contract for building water-works here and completing pipe line are reported to have been let to WILLIAM PARTRIDGE, Scranton, Pa., who will be associated with W. G. FRITZ, Dover, N. J., in the work.

ROUZERVILLE, PA.—Rouzerville Water Co., Jno. M. Newcomer, Pres., is reported to be considering extension of its system.

CONNELLSVILLE, PA.—Riverside Water Co. has been chartered with $20,000 capital. T. J. Mitchell and Frank Bradford, Connellsville, are interested.

READING, PA.—Bids are asked by Board Water Commissioners until March 21 for cast-iron pipes and special castings, cast-iron gate boxes, water gates, fire hydrants and corporation cocks, and for laying water pipes for fiscal year 1905-1906: Emil L. Nuebling, Supt. and Engr. W.-W.; Edward Ebert, Pres.

ALLEGHENY, PA.—Department of Public Works, Edw. J. McIlvain, Dir., has awarded contract for furnishing cast-iron pipe and specials (bids opened Feb. 28) to U. S. CAST IRON PIPE & FOUNDRY CO. City, according to reports, has voted $225,000 of bonds for water main extensions.

LOCK HAVEN, PA.—City has granted West End Water Co. franchise to lay mains on several streets for supplying Flemington and Mill Hall.

HUGHESVILLE, PA.—We are informed that T. F. Bradenbaugh and H. G. Frederick of Millersburg, Pa., have bought all the property, rights, etc., of the Hughesville Water Co. and will rebuild the works in the early spring. The new owners will be in the market for pipe, hydrants, valves, special castings, lead, jute, cement, pumps, gasoline engines, etc. H. G. Frederick will have contract and will be in charge of work.

PITTSBURG, PA.—Department of Public Works, Bureau of Filtration, has awarded contract for construction of filter plant (bids received March 8) to T. A. GILLESPIE CO., 71 Broadway, New York, and Westinghouse Bldg., Pittsburg. The above company was awarded all ten contracts for the work at the following figures: Contract No. 1—filters, basins and appurtenances, $3,303,620; Contract No. 2—filtered water reservoir and appurtenances, $417,007; Contract No. 3—river crossing and connections at Brilliant Pumping Station and appurtenances, $297,373; Contract No. 4—centrifugal pumps, engines and appurtenances, $89,000; Contract No. 5—boilers, economizers, piping and appurtenances, $66,950; Contract No. 6—sand washer pumps, electric machinery, auxiliary equipment and appurtenances for new pumping station, $119,200; Contract No. 7—pumping station and appurtenances, $344,532; Contract No. 8—river wall, intakes, connections and appurtenances, $212,647; Contract No. 9—pumping engines, boilers and appurtenances at Brilliant Pumping Station, $217,840; Contract No. 10—pipe line and appurtenances, Highland Reservoir No. 2 to south side, $489,826. Itemized bids for the above work will be given under Contract Prices.

NEW ALBANY, MISS.—Bids are asked until March 28 for construction of water-works and electric light plant. W. F. Wilcox, Engr., Jackson, Miss.; W. A. Liddell, Mayor. (Advertised, Engineering News.)

HODGENVILLE, KY.—The Hodgenville Mfg. Co. contemplates installing water-works for the town.

YOUNGSTOWN, O.—Plans have been completed by Frank M. Lillie, Cy. Engr., for high-pressure water main two miles lower across city from North side standpipe.

IRONTON, O.—W. L. Glazier, Newport, Ky., has submitted report to city, setting cost of a reservoir system at $75,000.

YOUNGSTOWN, O.—Board Public Service has awarded contracts for new valves, hydrants, and meters as follows: Valves, KENNEDY VALVE CO., $1,762; fire hydrants, R. D. WOOD & CO., $2,062; meters, WORTHINGTON METER CO. and HERSEY MFG. CO.

ARCANUM, O.—A. E. Cline, Mayor, writes us that proposed new city water-works will require two pumps each of 500,000 gallons capacity, 60,000 gallon standpipe and three to four miles of mains. Bids will be opened some time in May. Estimated cost of system is $38,000. P. H. Porter, Clinton, Ky., is Des. Engr.

CLEVELAND, O.—We are informed that Division of Water of Department of Public Service, Edward W. Bemis, Supt. W. W., will not decide for about a month as to plans and specifications for a high-pressure water service for a new high service district. The board is uncertain whether to call for gas engines or steam turbines. It is necessary to pump against a head of about 450 lbs., and will the first year require only about 500,000 gallons a day, but it will rapidly increase, so that the board is thinking some of buying two pumps of 2,000,000 gallons a day each, although possibly two pumps of a somewhat smaller capacity would be sufficient. The water will be pumped directly into the system with a standpipe at the farther end of it.

HUNTINGBURG, IND.—Contract for constructing waterworks dam at this place has been let to J. W. DOOLITTLE & SON, Corydon, Ind., at $5,800.

LAFAYETTE, IND.—Bids are asked by John E. Camardy, Supt. W. W., until March 20 for furnishing material and putting in all service attachments that may be required for period of one year.

MARION, IND.—We are informed that site will be selected for new reservoir for city, and construction work will then follow. According to press reports, reservoir will cost about $12,000. T. E. Petrie is Cy. Engr.

ALPENA, MICH.—Date for receiving bids for furnishing material and labor for construction of water-works and electric light plant for this city has been changed from March 23 to March 25, as is stated in our advertising columns. John H. Bloomshield, Engr., Bay City, Mich.; Frank C. Holmes, Mayor.

DANVILLE, ILL.—Danville Water Co. is stated to be having plans drawn for new settling basin, to cost $40,000.

DANFORTH, ILL.—Tower, tank and engine house of village water-works was destroyed by fire recently, with $3,000 loss. John Eden is Village Pres.

WESTVILLE, ILL.—National Construction Co., South Bend, Ind., is reported to have made proposition to this village looking to installation of water-works.

WINTHROP HARBOR, ILL.—T. E. Wells is stated to have purchased land on which to erect water-works for this place.

BRADLEY, ILL.—Bids are asked by President and Village Board until March 29 for all machinery, materials and supplies for water-works. Geo. C. Morgan, Engr., 808 Royal Insurance Bldg., Chicago, Ill.; Lewis Clark, Village Pres.

ELGIN ILL.—We are informed that specifications are being prepared for 200 to 250 HP. boilers and standpipe for city water-works. R. R. Parkin, Supt. W.-W.

CLARE, MICH.—The Mayor and Council are reported to be taking bids until March 23 for installation of waterworks at this place. Riggs & Sherman, The Nasby, Toledo, O., are Engrs.

COON RAPIDS, IA.—We are informed that proposition to issue $3,000 of bonds for water-works improvements failed to carry at election March 6. M. M. Cooney, Mayor.

IOWA FALLS, IA.—Western Steel Construction Co., at about $7,000, is reported to have been lowest bidder March 6 for pumping plant for this city. F. E. Foster is Cy. Clk.

BARNESVILLE, MINN.—John McGrath, Mayor, writes us that city will probably vote about June 1 on installing water-works, to cost $40,000.

TONGANOXIE, KAN.—An election has been called for April 3 to vote $12,500 water-works bonds. Burns & McDonnell, Consult. Engrs., Kansas City, Mo., are preparing plans and estimates.

ALMA, NEB.—Mayor W. W. Myers writes us that city has voted bonds, which will be sold March 28, and expects to put in new system of water-works and electric lights. No date has been set for receiving bids, although this will probably be done about April 15.

OMAHA, NEB.—Bids are asked until March 20 for installing standpipe in new storehouse at Quartermaster's Depot, Omaha. Lt.-Col. J. E. Sawyer, C. Q.-M.

MARION, S. DAK.—Franchise for constructing and operating water-works has been granted John A. Heeren and John Croepel.

NORTH FORT WORTH, TEX.—Bids are asked by L. G. Pritchard, Mayor, North Fort Worth, until March 25 for furnishing material and labor for construction of waterworks; work to include brick or concrete pump-house and stack; pumping plant, including two engines, capacity 1,000,000 gallons per 24 hours; two boilers, piping and appurtenances; pipe system, including about 1,200 tons of cast-iron pipe, 6 to 12 ins. in diameter, and necessary special castings; also about 74 gate valves and boxes and about 83 fire hydrants; covered reservoir, capacity 500,000 United States gallons, to be constructed of concrete; a standpipe or an elevated tank. Plans and specifications can be seen at office of J. M. Hall, Cy. Engr., North Fort Worth, or John B. Hawley, Consult. Engr., Fort Worth, Tex. There is no post-office of above name given in U. S. Official Postal Guide, but the proper parties probably can be reached by sending letters to Fort Worth, Tex.

GRANBURY, TEX.—Frisco Ice & Light Co., Granbury, has been granted franchise for installation of water-works.

SAYRE, OKLA.—Mayor D. B. Richardson writes us that they have had no estimates made as yet for proposed new municipal water-works.

EMPIRE, COLO.—We are informed that new works of Empire Electric Power & Irrigation will cost about $75,000. Supply is to be from Clear Creek, three miles distant. H. R. Oliver, Georgetown, Colo., is Des. Engr.

MONTROSE, COLO.—Bids are asked until April 1 for furnishing material and construction of reservoir, pipe line, storage tank and distribution system for this town. Work includes about 14 miles of pressure main, 20-acre reservoir, and 100,000-gallon storage tank. J. L. Atkinson, Mayor. Specifications may be seen at office of Engineering News, 220 Broadway, New York. (Advertised, Engineering News.)

DENVER, COLO.—C. P. Allen, C. E., Denver, and J. E. Moloney, C. E., Littleton, Colo., have made filings in State Engineer's Office for construction of dam and formation of reservoir just below North and South Forks of Platte River. Projected dam is to be 256 ft. high and 798 ft. long.

BERNALILLO, N. MEX.—Pedro Perea and Justinnanao Castillo are interested in Algodones Land & Irrigation Co., recently incorporated with $10,000 capital, to construct irrigation canals near Algodones.

ALBUQUERQUE, N. MEX.—Albuquerque Water Supply Co., M. W. Flournoy, Pres., and W. H. Gillenwater, Secy., propose, it is stated, to greatly improve its plant.

CARLSBAD, N. MEX.—Farmers' Irrigation & Land Co. has been incorporated with $250,000 of capital stock. James A. Cameron and Fred. F. Doepp are interested.

SEATTLE, WASH.—Board Public Works has let contract for water mains in Dorfel Ave. to PUGET SOUND BRIDGE & DREDGING CO., for $5,224.

BELLINGHAM, WASH.—F. B. Graves, Cy. Comptroller, writes us that contract for furnishing cast-iron pipe and fittings (bids received March 2) has been let to MORSE HARDWARE CO., 1025 Elm St., Bellingham, for $4,027.

VALLEJO, CAL.—We are informed that plans and specifications are under way for projected extension of city water-works to be made at estimated cost of $106,000. A 14-in. cast-iron pipe line 7¼ miles long is to be laid. Bids will probably be opened May 15. L. Kaarsberg, Vallejo, is Des. Engr.; W. J. Tormey, Cy. Clk.

ORANGE, CAL.—City Trustees are stated to have awarded contract for water system for fire protection puposes to S. J. SMITH MACHINERY CO., Los Angeles, Cal., for $10,223.

PRESCOTT, ARIZ.—J. J. Fisher and J. F. Hesse are making surveys of 30,000-acre track of land near Needles, which a company, D. M. Martin, Mgr., proposes to irrigate.

SPARKS, NEV.—Reno Power, Light & Water Co., Reno, Nev., W. A. Pennell, Ch. Engr., according to reports, is to install water system and gas plant for this place at total cost of $100,000.

OGDEN, UTAH.—Ogden Water Works Co., according to reports, may construct a reservoir at a cost of about $50,000.

TORONTO, ONT.—Time for receiving bids for erection of 5,000,000 or 6,000,000-gallon pumping engine for this city has been extended from March 21 to April 18, as is noted in our advertising columns.

CORNWELL, ONT.—We are informed that proposed extension of town water mains is only for purpose of supplying new consumers. Work will most likely be done by day labor. Jas. Strickland, Supt. W.-W., is official in charge. G. S. Jarvie is Town Clk.

PETERBORO, ONT.—Charles H. Keefer, C. E., has reported on present water-works dam and proposed new concrete dam, for this city. It is reported that no action will be taken at present. P. I. Matthews is Chn. W.-W. Comn.

## SEWERAGE.

***The names of parties awarded contracts are printed in capital letters.***

BOSTON, MASS.—Sewer work planned for this year is as follows: Charleston, $50,000; East Boston, $220,000; West Roxbury, $112,100; Brighton, $21,500; North Roxbury, $173,000; South Roxbury, $42,800; city proper, $140,450; South Dorchester, $70,000; North Dorchester, $99,000; South Boston, $101,000; total, $1,036,050. On account of main drainage at pumping station, $79,344.35; Back Bay gate-house and cleaning pond, $125,000; contract for gates, $23,975; grand total, $1,204,369.35. In addition to the above it is estimated that the old channel of Stony Brook will require $300,000, and for extending the commissioners' channel from Jamaica Plain to Forest Hills, $900,000. Report states that it is desirable that some work should be done on each of these channels during the present year. A fair season's work is put at $50,000 on the old channel, and $150,000 on the extension of the commissioners' channel. George Phillips is Deputy Supt. and Engr., Sewer Division; E. S. Dorr is Ch. Engr., 30 Tremont St.

NEW YORK, N. Y.—Bids are asked until April 7 for installing a sewer system at Fort Wood, Bedloe's Island, N. Y. Harbor. Traber Norman is Q.-M.

PASSAIC, N. J.—Bids are asked until March 17, 8 p. m., for laying a sanitary sewer in Henry St. John H. Osborn, member St. and Sewer Com.

GUTTENBERG (Weehawken, Station 2, post-office).—We are informed that bids are asked until March 22, 8 p. m., for constructing lateral sewer in Hudson Ave.; Section "A," Bergenline Ave. to Second St.; Section "B," Bulls-ferry Road to County Road. 15 and 18-in. pipe will be used. Estimated cost, $10,000. Harry R. Prosser is Town Engr.

TRENTON, N. J.—The Court of Errors has set aside as unconstitutional the act creating the Passaic Valley Sewerage Commission and its provisions for the construction of a system of trunk sewers from the falls at Paterson to the meadows below Newark and thence into New York Bay. Estimated cost was $8,000,000 to $10,000,000.

HADDONFIELD, N. J.—W. W. Young has been commissioned to prepare plans, etc., for a sewer system.

MEDIA, PA.—Borough Council may install a sewage disposal plant, at a cost of $50,000.

WILKESBARRE, PA.—We are informed that contracts were awarded for construction of sewers in 47 streets, advertised in Engineering News, as follows: Division No. 1, to GROSSART, PASCOE & CO., Allentown, Pa., $23,-166; Division No. 2, to D. M. ROSSER, Kingston, Pa., $12,903; Division No. 3, to HAWMAN BROS., Reading, Pa., $11,639; Division No. 4, to D. M. ROSSER, Kingston, Pa., $13,963; Division No. 5, to HAWMAN BROS., Reading, Pa., $13,847, and Division No. 6, to D. M. ROSSER, $14,337. Division No. 7 was not awarded. This was due to failure of certain property owners to sign releases. This was noted in ordinance covering award of contracts. W. Y. Ingham is Cy. Engr. Bert K. Finch is Engr. of Sewers. Lowest bid on Division No. 7 was submitted by Hawman Bros. Contracts for pipe and fittings were awarded as follows: Divisions Nos. 2 and 4, GEO. N. McALARNEY, Wilkesbarre, at $4,064 and $4,196, respectively; Division No. 3, J. A. HUTCHINS & CO., Wyoming, Pa., at $1,414; Division No. 5, ROBINSON CLAY CO., Akron, O., $9,045; Division No. 6, MACK MFG. CO., Philadelphia, Pa., $5,349. The Patton Clay Mfg. Co., of Patton, Pa., was lowest bidder on Division No. 7, at $3,004.

WASHINGTON, D. C.—We are informed that Hiram W. Phillips submitted low bid, at $41,598, on March 6 for constructing twin sewer siphons of sewage disposal system crossing Anacostia River. A. M. E. Phillips is acting Supt. Sewers.

GREENVILLE, N. C.—The State Se... have passed a bill authorizing this city ... bonds for a sewer system.

AUGUSTA, GA.—Bids are asked until ... p. m., for constructing all pipe sewers ... Nisbet Wingfield is Comr. Public Works.

BIRMINGHAM, ALA.—Citizens of West ... to issue $1,500 of bonds for installation ... tem.

HOLLY SPRINGS, MISS.—GUILD & ... nooga, Tenn., were awarded the contra... sewer system here. Bids were received M... tised for in Engineering News.

LOUISVILLE, KY.—Definite plans and ... ings for the new southern outfall sewe... pared by J. B. F. Breed, Cy. Engr. W... will begin within the next few months ... stock in the Louisville Gas Co., which ... city, will be sold as soon as the General C... it, and the money realized from the sa... together with the $250,000 of city bonds ... will provide the $1,500,000 which will b... struct the sewer. The gas company sto... either in the open market or at private ...

COLUMBUS, O.—Bids are asked by Bo... vice, Charles H. Frank, Secy., until Mar... struction by use of trenching machinery, of ... Central Relief Sewer, 3,785 ft. long and ... in diameter. Plans and specifications ma... Chicago office of Engineering News, Mon... Chicago, Ill. (Advertised, Egineering Ne...

BRIDGEPORT, O.—The council of Brook... up the question of securing a better water ... lighting system. A committee has been appo... sider the cost of installing such a system.

COLUMBUS, O.—We are informed that bids were received on March 8 for constructing main sewer pumping station. WESTWATER & CASEY, Columbus, were awarded contract at $61,013 (with radial brick chimney), and $61,713 (with pressed brick chimney).

FREMONT, O.—Bids will be received about March 20 for about 9,700 ft. of 15, 20, 24 and 30-in. tile sewer pipe and 1,800 ft. of brick sewer. Cost, $25,000. Geo. W. Lesher is Cy. Engr.

TOLEDO, O.—O'NEILL & TANSEY, Toledo, were awarded contract on March 8 for sewer No. 967, at $104,-015. HENRY STREICHER, Toledo, was awarded contract for sewer No. 897 in North Toledo, at $88,440.

RAVENNA, O.—Willis E. Myers, Engr., has prepared plans and specifications for proposed sewer system. It is planned to begin construction about May 1.

SANDUSKY, O.—This city contemplates the construction of several vitrified tile sewers. J. W. Miller is Cy. Engr.

ROCKFALLS, ILL.—City will construct an extensive sewer system, at an estimated cost of $29,565. T. E. Irwin is Mayor.

CLEVELAND, O.—Bids are asked until March 23, noon, for constructing sewers in portions of three streets. W. J. Springborn, Pres. Bd. Pub. Service.

MARION, IND.—Bids are asked until March 21 for construction of a sanitary sewer. John O. Willson, Cy. Clk.

LOGANSPORT, IND.—It is reported that bids will be received on April 5 for a sewer system on the west side, about 3 miles in length. W. A. Osmer is Cy. Engr. Noted on March 9. Estimated cost, $50,000.

HAVANA, ILL.—J. E. DALEY, of Jacksonville, Ill., has the contract for constructing sewers at $13,989.

CHICAGO, ILL.—Bids are asked until March 22 for purchase of $2,000,000 of 4% sanitary district bonds. S. D. Griffin, Clk. Sanitary Dist.

DANVILLE, ILL.—The City Council has passed an ordinance providing for the construction of a sewer between Oak and Gilbert Sts., to cost $5,039.

SPRINGFIELD, ILL.—Bids are asked until March 17, 3 p. m., for installing an 18-in. sewer in Eighth St. Harry H. Devereux, Mayor.

WEST ALLIS, WIS.—A special election will be held on March 26 to vote on issuance of $15,000 of bonds for a sewer system, and $60,000 for a water system.

MILWAUKEE, WIS.—The Board of Public Works recommends that the following appropriations be made for new sewers: $27,160 for the east side; $114,483 for the west side, and $79,949 for the south side sewerage district.

DES MOINES, IA.—Bids were received on March 11 for Ingersoll Run sewer. Contract was awarded to WILLIAM HORRABIN, Iowa City, Ia., we are informed, at $33,459. A. C. Frisk, Ch. Clk., Bd. Public Works.

DES MOINES, IA.—Bids are asked until 11 a. m., March 21, for constructing a 24-in. vitrified clay pipe sewer in Willow St., about 1,064 lin. ft. long. W. W. Wise, J. W. Campbell, Bd. of Public Works.

ST. PAUL, MINN.—L. W. Rundlett, Comr. of Public Works, in his annual report recommends improvements to the sewers: Atwater St. extension, $25,000; sewers in Como Park and Warrendale District, about $15,000; Trout Brook sewer below Third St., $5,000. Also the completion of the St. Anthony Park sewer system, and other sewers.

MINNEAPOLIS, MINN.—Bids are asked until March 31 for the following materials, to be used in sewer construction during 1905: sewer brick, special castings and vitrified clay pipe. Andrew Rinker is Cy. Engr. Edw. R. Dutton is Asst. Cy. Engr.

FT. LEAVENWORTH, KAN.—Bids are asked by Maj. D. E. McCarthy, Q.-M., until April 3 for installing a sewage lift at Ft. Leavenworth.

KIRKWOOD, MO.—Bids are asked by Board of Aldermen, J. G. Hawken, Cy. Clk., until April 3 for construction of public and district sewers and septic tanks. (Advertised, Engineering News.)

ST. JOSEPH, MO.—Bids are asked until April 5, 10 a. m., for constructing the following sewers: South St. Joseph sewer system: 3,730 lin. ft. of 10-ft. circular concrete sewer, 1,400 lin. ft. of 7-ft. circular concrete or brick sewer, 530 lin. ft. of 6½-ft., 1,010 lin. ft. of 4½ ft. 180 lin. ft. of 4-ft., 1,390 lin. ft. of 3½-ft., 500 lin. ft. of 3-ft., together with the necessary manholes and inlets, or so much of the above-named work as can be constructed for $75,000. Sycamore St. sewer: 1,600 lin. ft. of 4-ft. circular concrete or brick sewer, together with necessary manholes and inlets. Mitchell Ave. sewer: 1,940 lin. ft. 9-ft. circular concrete or brick sewer, 2,700 lin. ft. 8-ft., 980 lin. ft. 6-ft., together with necessary manholes and inlets, or so much of above-named work as can be constructed for $60,000. Grand Ave. sewer: 1,350 ft. of 8-ft. circular concrete or brick sewer, together with necessary manholes and inlets. Wyatt Park extension sewer: 3,000 lin. ft. of concrete or brick sewer, together with necessary inlets and manholes, or so much of above-named work as can be constructed for $10,000. Wm. H. Floyd, Jr., Cy. Engr.; John C. Landis, Pres. Bd. Public Works.

SEATTLE, WASH.—Bids are asked until March 25 by ... Bagley, Secy. Bd. Public Works, for construction of ... trunk sewer in Rainier Ave. at estimated cost of ... Approximate estimate of quantities: 1,400 lin. ft. ... circular brick sewer; 851 lin. ft. of 72-ft.; 830 lin. ... 520 lin. ft. 60-ft.; 2,508 lin. ft. 54-ft.; 398 lin. ft. ... 1,584 lin. ft. 52 × 48-ft. oviform brick sewer; 2,670 ... 45-ft.; 208 lin. ft. 24 × 36-ft.; 21 4½-ft. man... 17 special manholes; two manholes, to be lowered; ... catch-basins, single inlets; one catch-basin, double ... two special junction chambers; one special over... 27 M. ft. B. M. lumber for foundation; 300 cu. yds. ... for foundation. Alternate bids will be received ... construction of brick sewers and reinforced concrete ... sewers.

NORTH YAKIMA, WASH.—Ernest McCulloh, Cy. ... advises that bids are asked until noon, March 20, ... sewer extensions, as follows: 975 lin. ft. 16-in. wood ... pipe; 2,780 lin. ft. 18-in. wood stave pipe; 400 lin. ft. ... vitrified pipe sewer; 1,725 lin. ft. 18-in. vitrified ... sewer; 6,935 lin. ft. 15-in. vitrified pipe sewer; 7,910 ... 12-in. vitrified pipe sewer; 5,275 lin. ft. 10-in. ... pipe sewer; 31,460 lin. ft. 6-in. tile sub-drain ... two screen chambers; two weir chambers; 58 man... J. C. Brooker is Cy. Clk.

LOS ANGELES, CAL.—Bids are asked until 11 a. m., ... 20, for constructing storm sewer from Second St. ... Los Angeles River. H. J. Lelande, Cy. Clk.

SAN JOSE, CAL.—An election will be held March 18 to ... a sanitary sewer district, to be known as College ... district. Henry A. Pfister is Clk.

SAN RAFAEL, CAL.—An election is to be held on April ... to vote upon question of issuing bonds for construction ... sewers in Dist. No. 3. W. W. Morse is Secy. Sanitary ... Board.

## GARBAGE DISPOSAL—STREET CLEANING

*The names of parties awarded contracts are printed in capital letters.*

MIDDLETOWN, CONN.—Contract for street sprinkling ... this summer has been let to A. BRAGOS & SONS for ... .

NEW YORK, N. Y.—Bids were received March 6 by Jo... Cassidy, Pres., Queens Borough, for constructing ... garbage plant in 4th Ward. Wm. Nolan, 375 Fulton St., Brooklyn, N. Y., submitted a bid of $24,950 for the work.

PLAINFIELD, N. J.—Council Street Committee are tak... bids until March 23 for street sprinkling.

YORK, PA.—Bids are asked by Sanitary Committee, S. Horace Gotwalt, Secy., until March 21, for collection and ... removal of garbage for fiscal year beginning April 3.

MARION, IND.—Contract for disposing of city garbage ... been awarded to MARION REDUCTION CO., for $1,... per year.

SACRAMENTO, CAL.—It is probable that this city will ... call for bids next month for construction of garbage ... crematory.

## STREETS AND ROADS.

*The names of parties awarded contracts are printed in capital letters.*

BOSTON, MASS.—Bids are asked by Bureau of Yards and Docks, U. S. N., Washington, D. C., until March 25 for constructing vitrified pavement, curbing and sidewalks at Navy Yard, Boston. Specifications on file at office of Engineering News, 220 Broadway, New York.

BOSTON, MASS.—Bids are asked by James Donovan, Supt. of Sts., until March 20 for furnishing bank gravel and sand between March 22, 1905, and Feb. 1, 1906.

FALL RIVER, MASS.—Philip D. Borden, Cy. Engr., informs us that Frank A. Thurston, Supt. of Sts., has been directed to purchase 220,000 paving blocks for use this coming summer.

SHARON, CONN.—The contract for graveling a section of road, 5,835 ft., has been awarded to GEO. E. BIERCE, of Sharon.

HARTFORD, CONN.—Ed. D. Graves, Ch. Engr., Connecticut River Bridge and Highway Dist. Comr., writes that the contract for furnishing material and grading railroad tracks, streets and approaches, approximately 325,000 cu. yds., has been awarded to RICHARDS & GASTON, 143 Liberty St., New York, for about $92,000.

ROCHESTER, N. Y.—The contract for paving on First St. with brick has been awarded to H. N. COWLES, 47 Tacoma St., for $26,043.

NORTH GREECE, N. Y.—Bids are asked by Town Board until March 17 for furnishing, crushing and placing 5,235 yds. crushed stone or Charlotte foundry slag and 1,500 yds. screenings. Chas. E. Toal, Town Clk.

NEW BRIGHTON, N. Y.—Bids are asked by Geo. Cromwell, Pres. Boro. of Richmond, until March 28 for furnishing labor and material required for repaving several streets with granite blocks or asphalt.

BROOKLYN, N. Y.—Bids are asked by Martin W. Littleton, Pres. Boro. of Brooklyn, until March 29 for regulating and repaving pavements and sidewalks on a number of streets.

CORTLAND, N. Y.—We are informed that contract for paving Tompkins St., Owego St., Maple Ave., and Clinton Ave. with asphalt was let to BARBER ASPHALT PAVING CO., Philadelphia, Pa., for total of $68,849; contract for paving Elm St. with asphalt was let to WARNER-QUINLAN ASPHALT CO., Syracuse, N. Y., for $36,548. Bids for the work were received Jan. 26, and there were over 100 people in attendance at the letting, representing the contractors and material men. There were 21 bidders for the work, and it was said to have been one of the largest gatherings of paving men at any letting in the country. Bids were received for paving the streets with either brick or bitulithic, as well as with asphalt. The Board of Public Works, however, decided to pave all streets with asphalt and cement curb and gutter, so no contracts were awarded for either brick pavement or bitulithic. W. S. Farrington, Syracuse, N. Y., Engr.

ALBANY, N. Y.—Bids are asked by Board of Contract and Supply until March 20, 3 p. m. (readvertised), for improvement of South Pearl St. by grading, curbing, paving carriageway with asphalt blocks, repairing sidewalks, and building receiving basins. Isidore Wachsman, Clk.

NEW YORK, N. Y.—Bids are asked by Louis F. Haffen, Pres. Boro. Bronx, until March 21 for paving with asphalt blocks on concrete foundation a portion of East 183d St., and with granite blocks on concrete foundation from Park to Webster Aves.; also for regulating, grading, curbing and flagging sidewalks on East 206th St.; engineer's estimate, 3,700 sq. yds. asphalt block pavement and keeping same in repair for five years, 1,200 lin. ft. new curb, 825 sq. yds. granite block pavement and keeping same in repair for five years, 4,950 cu. yds. earth excavation, 5,400 cu. yds. rock excavation, 1,700 yds. fill, 1,200 lin. ft. new curb, 4,650 sq. ft. new flag, etc.

AVON, N. J.—Contract for erection of boardwalk here, it is stated, was awarded to ALEXANDER MULLEN, of Avon, for $3,898.

ATLANTIC CITY, N. J.—The contract for paving Atlantic Ave. was awarded March 3 to the CLEVELAND TRINIDAD PAVING CO., Rose Bldg., Cleveland, O., for $216,000.

WILDWOOD, N. J.—The contract for 125,000 sq. ft. of walk and 25,000 lin. ft. of curb has been awarded to RUDOLPH S. BLOME CO., Unity Bldg., Chicago, Ill., for $21,000. Bids were opened Feb. 14. J. Du Bois is Boro. Clk.

SOUTH ORANGE, N. J.—Bids are asked by the Board of Trustees until March 20 for the following street improvements: 13,000 sq. yds. Telford broken stone pavement; 1,750 sq. yds. Belgian block gutters; 1,160 sq. yds. brick gutter and resetting 4,400 ft. of curb. M. A. Fitzsimmons, Village Clk. (Advertised, Engineering News.)

YORK, PA.—JOHN H. DOBBLING, of this city, will build first stretch of road here under provisions of the new Good Roads law. The road will extend from George St. toll-gate to Grantley St. bridge. It will be 7,025 ft. long and 16 ft. wide, with an 18-in. topping of crushed stone.

HARRISBURG, PA.—Bids are asked by State Highway Department until April 3 for construction of 43,131 ft. of road in Luzerne County.

WILKESBARRE, PA.—Bids are asked by Fred H. Gates, Cy. Clk., until March 20 (readvertised) for furnishing and delivering to city along the streets vitrified, grooved and lugged paving block, for paving about seven miles of street. W. V. Ingham, Cy. Engr.

DUQUESNE, PA.—We are informed that bids will be opened some time this spring for 2,000 sq. yds. asphalt pavement on concrete foundation. Est. cost $4,800. Rankin & Hengst, 301 Smithfield St., Pittsburg, are Engrs.

DELAWARE CITY, DEL.—Bids are asked until April 10 for construction of granolithic sidewalks at Fort Mott, N. J. Capt. Louis F. Garrard, Jr., Q.-M. (Advertised, Engineering News.)

BALTIMORE, MD.—B. T. Fendall, Cy. Engr., informs us that the ordinance for widening Light St., south of Pratt St., has passed both branches of Council and will be signed by Mayor, after which the Burnt District Commission must acquire the property.

AUGUSTA, GA.—Nisbet Wingfield, Cy. Engr., informs us that Jackson St. paving will be advertised and let in May.

FORT BARRANCAS, FLA.—Bids are asked until March 29 for constructing plank walk at Fort Pickens, Fla. W. E. Cole, Q.-M.

BESSEMER, ALA.—Wm. J. Parkes, Cy. Engr., writes us that the letting of contract for cement sidewalks, vitrified brick alley crossings and driveways, originally advertised for March 21, has been indefinitely postponed.

MOBILE, ALA.—We are informed that the bids for 1¼ miles of gravel road will soon be advertised for by County Commissioners. J. N. Hazlehurst, Engr.

BIRMINGHAM, ALA.—Julian Kendrick, Cy. Engr., informs us that bids will be received April 5 for flooring 21st St. bridge either with creosoted wooden block, brick, asphalt, bituminous macadam or reinforced concrete. The bridge is 1,000 ft. long, with a 24-ft. driveway.

GREENVILLE, MISS.—Bids are asked by City Council until April 4 for construction of about 600,000 sq. ft. of granolithic sidewalk. (Advertised, Engineering News.)

CLEVELAND, O.—It is reported that plans have been completed by Board Public Service for construction of road in upper flats leading to Cleveland Furnace Co. Wm. J. Carter is Cy. Engr.

URICHSVILLE, O.—An $18,000 bond issue has been authorized, the proceeds to be applied to cost of paving West Third St.

FREMONT, O.—The Council has resolved to pave West State St. with vitrified brick. Geo. W. Lesher is Cy. Engr.

FREMONT, O.—Geo. W. Lesher, Cy. Engr., informs us that bids will be received June 1 for about 20,000 sq. yds. of brick pavement. Est. cost, $40,500.

BUCYRUS, O.—City Council has passed an ordinance to pave Sandusky Ave.

TOLEDO, O.—Bids are asked by Board Public Service until March 20 for improvement of sundry alleys and streets.

MARION, IND.—Bids are asked by Jno. O. Willson, Cy. Clk., until March 21 for improvement of unfinished sidewalks on each side of Highland Ave.

BEDFORD, IND.—We are informed that no bids were received by County Commissioners March 13 for constructing gravel or macadam roads in Marshall Township. Anselm Wood, Chn.

VINCENNES, IND.—Bids are asked by County Commissioners until April 4 for construction of 2,904 ft. of gravel roads in Vigo Township. John T. Knox, County Audr.

RICHMOND, IND.—We are informed that bids will be received until March 20 for the improvement of Liberty Ave. by laying cement curbs, gutters, cement sidewalks and rolled gravel roadway. H. L. Weber, Cy. Engr.

CORYDON, IND.—We are informed that about 30 miles of gravel roads will be constructed here this spring. G. C. Doolittle is Engr.

BLOOMFIELD, IND.—Bids are asked by Greene County Commissioners until April 4 for construction of gravel and macadamized roads in Beech Creek Township. Wm. H. Deckard, Audr.

CHICAGO, ILL.—The Board Local Improvements authorized the expenditure of $400,000 for street paving as follows: West 22d St., asphalt, $64,000; North Marshfield Ave., asphalt, $29,500; West 62d St., asphalt, $34,000; Union Ave., asphalt, $24,000; West 64th St., brick, $15,600; 35th St., asphalt, $25,500; South Hamilton Ave., asphalt, $14,000; Waller St., asphalt, $16,500. John Ericson is Cy. Engr.

DETROIT, MICH.—Bids are asked by Department Public Works until March 30 for furnishing all shale or fire clay that may be required by city for making brick for paving purposes during year ending Dec. 31, 1905. Wm. H. Maybury, Comr.

MENOMINEE, MICH.—Local press reports state that the city will during the year 1905 spend $46,465 for pavements and sewers. Albert Hass is Cy. Engr.

RACINE, WIS.—It is reported that the contract for paving Douglas Ave. with brick was awarded to JAMES A. JONES, City, for $27,450. P. M. Connolly is Cy. Engr.

WATERTOWN, WIS.—We are informed that the contract for macadamizing and laying combined cement curb and gutter on Clyman, Second and North Washington Sts. was awarded to ELZY & DUNN, of Marshalltown, Ia., for $15,753. Frank S. Weber, Cy. Clk.

MILWAUKEE, WIS.—The Board Public Works has recommended the following permanent street improvements: Asphalt paving, Wells St.; Kettle River sandstone, Clybourn and Galena Sts.; vitrified brick, 11th and Muskego Ave., Mitchell and Clinton Sts. Chas. J. Poetsch is Chn.

CRESTON, IA.—Bids are asked by City Council until March 21 for laying concrete curbing on several streets. W. H. Robb, Cy. Clk.

FAIRFIELD, IA.—Considerable paving will be laid here this summer, according to press reports.

BEDFORD, IA.—Bids will be received, it is stated, by J. W. Aiton, Clk., Mason Township, until April 3 for road work in township for the ensuing year.

DES MOINES, IA.—The contract for paving West Eighth St. with vitrified brick has been let to WM. HORRABIN, and the contract for curbing of School St. was awarded to KING-LAMBERT CONSTRUCTION CO.

MANKATO, MINN.—Council has ordered about 30,000 yds. of brick paving on two streets. J. R. Thompson is Cy. Engr.

DULUTH, MINN.—According to local press reports over five miles of new pavement will be laid in Duluth this summer. T. F. McGilvray is Cy. Engr.

MINNEAPOLIS, MINN.—We are informed that proposals will be received March 31 for the following material for paving and curb construction; L. A. Lydiard, Cy. Clk.: Cedar blocks, 10,000 sq. yds.; sandstone blocks, 30,000 sq. yds.; creosoted blocks, 40,000 sq. yds.; vitrified blocks, 30,000 sq. yds.; crushed slate, 1,000 cu. yds.; granite curb, 2,000 ft.; sandstone curb, 4,000 ft. Creosoted block proposals will be received on April 14. Andrew Rinker, Cy. Engr.

FORT LEAVENWORTH, KAN.—Bids are asked until March 23 for furnishing and delivering brick, cement and sand for constructing curbs and gutters at this post. Maj. D. E. McCarthy, Q.-M.

LEAVENWORTH, KAN.—Ed. Jones, Cy. Engr., informs us that a resolution to pave Fourth St. passed Council, but the work is still subject to protest. Est. cost, $25,000.

OMAHA, NEB.—Bids are asked by Board Public Works until March 24 for grading of nine streets. Andrew Rosewater, Chn.

LINCOLN, NEB.—Bids are asked by Geo. L. Campen, Cy. Engr., until March 18 for grading, curbing and paving roadway in Paving Districts Nos. 41, 45, 51, 54, 56, 63, Alley District No. 16, and repaving Districts Nos. 16, 27, 28 and 29.

VAN BUREN, ARK.—The City has awarded the contract for construction of four miles of standard concrete sidewalks throughout the city. McEACHIN & HIPPLE, of South McAlester, I. T., were the successful bidders, their bid being 9 cts. per sq. ft.

ST. JOSEPH, MO.—The Board Public Works, Mar. 2, awarded to PEERLESS ARTIFICIAL STONE CO. a contract for constructing artificial stone sidewalks and curbing on both sides of 26th St.

ST. LOUIS, MO.—Bids are asked by Board Public Improvements until March 21 for paving ten streets with asphalt and one with brick.

OKLAHOMA CITY, OKLA.—Bids are asked by T. A. Blaise, Cy. Clk., until March 20 for construction of sidewalks.

TACOMA, WASH.—Bids are asked by County Commissioners until March 27 for improving East M St.

SEATTLE, WASH.—Bids are asked by C. B. Bagley, Secy. Bd. Pub. Wks., until March 18 for constructing concrete sidewalks on Brooklyn Ave., and for paving Fourth Ave. and Pine St. Est. cost, $15,650.

SEATTLE, WASH.—We are informed the City Council has ordered the improvement of over 25 streets by grading, paving, planking, laying new sidewalks, etc. Est. cost, $819,460. It is expected that most all of this work will be completed this summer. Work will be advertised for bids in short time for a number of these streets. R. H. Thomson is Cy. Engr.

SEATTLE, WASH.—Bids are asked by C. B. Bagley until March 25 for the following paving work: Asphalt, 35th Ave., est. cost, $21,750; Olympic Place, asphalt, $13,800; Warren Ave., sandstone block, $4,900; Sixth Ave., West and other streets, asphalt, $26,000; Tenth Ave. North and other streets, concrete walks, $10,500.

SAN DIEGO, CAL.—The contract for grading of M St. was awarded by Board Public Works to OVER & BROWN. Cost, $15,000.

SAN FRANCISCO, CAL.—The Board Public Works awarded the contract to CITY STREET IMPROVEMENT CO., Mills Bldg., City, to pave with asphalt roadway of H St., for $27,990.

## MANUFACTURING PLANTS.

*The names of parties awarded contracts are printed in capital letters.*

BURLINGTON, VT.—C. D. Ordway, Pres. Vermont Spool & Bobbin Co., Essex Junction, Vt., will build a large mill at Burlington, of cement blocks.

GREENDALE, MASS.—The Greendale Gas Engine Co. contemplates the erection of a plant for the manufacture of gas engines.

WORCESTER, MASS.—The Gilbert Last Co. contemplates increasing its manufacturing facilities, including the addition of new tools.

WORCESTER, MASS.—William & Bridges, of Worcester, manufacturer of wooden and paper boxes, contemplates the erection of an addition to their shops, to be three stories and about 40 × 70 ft. New machinery will be required for the addition.

SALEM, MASS.—It is stated that Roo'and M. Baker Pres. Morrill Leather Co., invites proposals for construction of a six-story frame factory, 270 × 60 ft., for leather making purposes. The factory will be an addition to its present plant.

HUNTINGTON, CONN.—The Kettle Stitch Sewing Machine Co. has been incorporated with $50,000 cap. stock, to manufacture machinery. Incorporators: S. M. Smyth, Hartford; E. E. Pierce, New Brighton, Pa.; and L. B. Post, Pasadena, Cal.

MERIDAN, CONN.—The Meridan Fire Arms Co. was incorporated with a capital of $125,000. Julius Rosenwald, Chicago, Ill., is one of the incorporators.

ROME, N. Y.—Chas. W. Lee, Treas., Rome Merchant Iron Mill, announces that the contract for rebuilding the plant of that company has been let to the AMERICAN BRIDGE CO. The new mill will be entirely of steel and fireproof in every particular.

NEW YORK, N. Y.—C. C. Shayne, 124 West 42d St., has filed plans by A. S. Gottlieb, Arch., 156 Fifth Ave., for an eight-story factory and store, 25 × 198 ft., at 129 West 41st St., through to 126 West 42d St. Cost $100,000.

NEW YORK, N. Y.—W. A. Bowing, 32 Broadway, has plans for a factory for John Jacob Astor, 23 West 26th St. Cost, $50,000.

Plans are ready for bids on a brick, concrete and steel smelting works for Emily T. Kent, of Tuxedo, N. Y. Cost, $12,000. F. H. Quimby, 90 Nassau St., is Arch.

Emden Co. was incorporated with a capital of $35,000 to manufacture wall paper. Incorporators: Albert Emden and Egbert L. Tenny, New York, and R. L. Valentine, Woodbridge, N. J.

SYRACUSE, N. Y.—Chas. D. Wilsey, Arch. is preparing plans for a new building in connection with the Frazer & Jones factory on West Fayette St.

It is expected that plans for new Halcomb steel plant will be ready for bids this month.

CAMDEN, N. J.—John H. Dialogue & Son, of Camden, will rebuild the part of their eshipbuilding works which was recently burned.

PHILADELPHIA, PA.—Plans have been revised by Wm. Steele & Sons, 16th and Arch Sts., for sub-bids for an addition to foundry, at Second and Glenwood Ave., for Schaum & Uhlinger.

YORK, PA.—The Standard Paving & Construction Co. will build a plant and warehouse.

SAYRE, PA.—C. F. Dyer, of Wilkesbarre, is preparing to erect a flour mill here.

INDIANA, PA.—Harry White, David Simpson and J. L. Peterman are planning to build a wood fiber plaster plant.

ALEXANDRIA, VA.—The Cheeseman Chemical Co. has been incorporated with $200,000 cap. stock to establish a plant for the manufacture of chemicals.

MORGANTOWN, W. VA.—COMPION & WYANT, of Anderson, Ind., have the contract to move plant of West Virginia Bottle & Glass Co., from Hartford City, Ind., to Morgantown, and to erect building and furnaces.

HARRY DIXON, of Pittsburg, Pa., has the contract for an 80 × 80 ft. brick addition, to contain furnace and smoke stack for Union Stopper Co., Morgantown. Cost, $15,000.

MORGANTOWN, W. VA.—The Union Stopper Co. has been chartered to manufacture glass bottles and glassware of all kinds. Capital stock $100,000. Incorporators: Howard H. Nieman, Thos. L. Waters and others, of New York, and A. A. Kelly, of Mt. Clair, N. J.

CONCORD, N. C.—A $100,000 cotton mill will probably be erected here. R. A. Brown is the chief promoter.

SUMTER, S. C.—The Carolina Chemical Co. has purchased property near here and will establish a branch factory.

COLUMBUS, GA.—Edmund L. McLean will probably establish a mill here to manufacture fine shirtings.

AUGUSTA, GA.—The Riverside Cotton Mills will be enlarged for the purpose of manufacturing cotton mattresses.

HUNTSVILLE, ALA.—A large distillery will be established here. Secretary of Chamber of Commerce can give information.

ANNISTON, ALA.—The Woodstock Cotton Mill Co. will double the capacity of its mill. A new brick building will be erected and new machinery installed. John W. Noble is Pres.

BIRMINGHAM, ALA.—The American Wood-Fibre Plaster Co. will erect a plant at a cost of $25,000. The plant here will be a branch of a large company in Akron, O., and the original company is capatilized at $600,000.

JACKSON, MISS.—A canning factory will be erected here with a capacity of 5,000 cans per day. Hugh L. Caskill is Secy.

MERIDAN, LA.—A $500,000 cotton mill will be erected here.

MEMPHIS, TENN.—A. B. Nickey & Co., capital $200,000, will erect a saw and planing mill here.

LOLA, KY.—W. L. Kennedy contemplates erecting a canning factory here.

LEXINGTON, KY.—Geo. S. Shanklin and others will organize a company to establish a paint and varnish factory here.

LOUISVILLE, KY.—The Louisville Interurban Ry. Co. will erect a repair shop at a cost of $4,500. J. T. Funk is Supt.

LOUISVILLE, KY.—The Standard Sanitary Mfg. Co. has awarded contracts for construction of a foundry and warehouse on Jarvis Ave. They will be constructed of steel and iron. The foundry will have a floor space of 280 × 150 ft., and the warehouse of 149 × 110 ft.

NORWOOD, O.—The Dana Mfg. Co., of Cincinnati, will erect a large plant here for the manufacture of ice-cream freezers, to cost about $100,000.

JACKSON, O.—Bids will be received until April 15 for erection of ten shop buildings for Detroit Southern Ry. Co., City. Cost, $30,000. Robt. Gotwald, Springfield, O., is Arch.

PAINESVILLE, O.—The Foyer Steel Stamping Co. has increased its capital from $20,000 to $40,000 and will erect two new buildings, one to be 40 × 100 ft., 1-story and built of brick, the other 30 × 80 ft., 1 story.

ASHTABULA, O.—The Buckeye Fence Machine Co. recently organized is preparing to erect a plant in this city. Address W. C. Grant. Plans are not yet finished.

YOUNGSTOWN, O.—The Blair & Young Co. of Pittsburg, a corporation recently organized under the laws of West Virginia, with a capital of $100,000, will erect a building 80 × 200 ft., adjoining plant of Youngstown Mfg. Co. in Youngstown, for the manufacture of industrial steel cars. The company has also let contracts for a new power-house to accommodate a plant of about 200 HP. for the operation of foundry and machine shops of Blair & Young Co. and the Youngstown Car Mfg. Co.

INDIANAPOLIS, IND.—The Parry Mfg. Co. will begin at once the erection of two new two-story brick factory buildings, at a cost of $47,000, and will remodel two warehouses to the extent of $15,000.

AUBURN, IND.—The Lockwood lumber mill recently destroyed by fire will be rebuilt. Address Morten Lockwood.

DETROIT, MICH.—Bids are asked by Department Public Works until March 31 for erection of a plant for the manufacture of paving brick. Bids will be considered for plants with capacity for 20,000 and 30,000 daily output. Wm. H. Maybury, Comr.

DETROIT, MICH.—Chittenden & Kotting, Archs., 1325 Penobscot Bldg., have made plans for a factory for estate of Wm. H. Tefft. W. T. Barbour, agent, 1320 Jefferson Ave. Brick, 2 stories, 64 × 138 ft. Cost, $10,000.

CARLYLE, ILL.—A large cannary will be built here at once. The building will be L-shaped, 120 ft. each side. Fredolin Schafly, Ed. Wetermann and Lawrence Schilling are stockholders and will erect the building.

EAST ST. LOUIS, ILL.—We are informed that the annealing plant of the Missouri Malleable Works, of East St. Louis, was destroyed by fire March 7. Loss between $35,000 and $50,000. The plant will be rebuilt immediately. Jno. C. Nulsen, City, is Pres.

MILWAUKEE, WIS.—It is stated that the Jung Brewing Co., Fifth and Cherry Sts., will erect an addition to their plant. Site has been purchased.

MILWAUKEE, WIS.—The Schlitz Brewing Co. will erect a fireproof five-story building, at Second and Sycamore Sts., 100 × 150 ft. Est. cost, $100,000. No plans drawn as yet.

The Four-Wheel Drive Wagon Co., N. P. Hulst, 300 Knapp St., Pres., has been incorporated to build a factory for automobile trucks.

RACINE, WIS.—The foundry of the Lakeside Malleable Castings Co., at Lakeside, was destroyed by fire. Loss, $15,000.

CEDAR RAPIDS, IA.—The plant of the American Cereal Co., the largest of its kind in the world, was destroyed by fire March 7, with the exception of a small group of cooper shops, storage and packing rooms. The loss is estimated at $1,500,000.

OMAHA, NEB.—The Puritan Laundry Co. is having plans prepared for a steam lanndry. Theo. A. Spratlen, Secy., 13th and Castellar Sts.

KANSAS CITY, MO.—The Kempeg-Paxton Mercantile Co., City, will build a factory to cost $80,000, for the manufacture of farm implements.

ST. LOUIS, MO.—Plans have been prepared by Mauran, Russell & Garden, Archs., Chemical Bldg., for a five-story factory building, 130 × 50 ft. for Crunden-Martin Woodenware Co. Bids will be received by E. Ward, Benoist Bldg. Cost, $50,000.

TOLLVILLE, ARK.—B. Toll & Sons will erect a grist mill here.

HARRISBURG, ARK.—J. G. Dowdy, of Jonesboro, will erect a brick plant here, of 10,000 daily capacity.

PARAGOULD, ARK.—According to the "Pink Sheet Daily Bulletin" the Crystal Ice Co. will install new machinery. M. F. Van Sickle is Mgr.

BEAUMONT, TEX.—It is stated that bids are now being received by the Beaumont Rice Mills for construction of mill to have a daily capacity of 2,400 barrels. J. S. Broussard is Mgr. The new mill will be a combination rice mill and grist and rice flour mill. Est. cost $75,000. The plant will be equipped with both the American and German process machinery.

HAMILTON, TEX.—The Hamilton Light & Ice Co. has been organized here with a capital stock of $20,000 for the purpose of establishing an electric light and ice plant. C. Schuwirth, of Dallas, is interested.

TULSA, IND. T.—Articles of incorporation have been filed for the Tulsa Foundry & Machine Co., of Tulsa. A plant will be built for the manufacture of oil well machinery.

DENVER, COLO.—The Denver Vacuum Ice has been been organized by Denver capitalists with $300,000 cap. stock for the purpose of erecting and operating an ice plant. Wm. T. Child, Arch., Evans Blk., is Pres.

GUTHRIE, OKLA.—A feather cleaning machine factory will be established here. J. H. Hardin will be manager.

BALLARD, WASH.—Permits have been issued to J. F. Marks for the erection of buildings for a wooden pipe factory. Cost $13,000. Machinery and equipment will probably cost not less than $50,000.

EAST OAKLAND, CAL.—P. L. Kimberly and J. V. Rose, of Sharon, Pa., are interested in a company which is now being organized to erect a brick plant in East Oakland. Cost $150,000.

## MISCELLANEOUS CONTRACTS.

*The names of parties awarded contracts are printed in capital letters.*

FIRE ALARM SYSTEM.—Pomona, Cal.—Contract for installing fire alarm system for city has been let to OSCAR OVERHOLTZER for $2,375.

SEA WALL.—Alameda, Cal.—Bids are asked by J. W. Gillogly, Cy. Clk., until March 20 for construction of concrete sea wall at south end of Bay St.

SUBWAY.—Lancaster, Pa.—Contract for subway at Walnut St., under tracks of Pennsylvania R. R., has been let to H. E. AARONS & SON, Lewistown, Pa.

SWITCHBOARDS.—New York, N. Y.—Bids are asked by Geo. E. Best, Comr. of Bridges, 13 Park Row, until March 23 for furnishing and delivering switchboards.

DRAINAGE DITCH.—Belgrade, Mont.—JOHN ROBINSON, Central Park, Mont., is stated to have secured contract for large drainage ditch near this place.

LEVEE.—Dayton O.—National Cash Register Co., Keppele Hall, Chn. Bldg. Com., contemplates construction of a levee along the Great Miami River at this point.

COAL TUNNEL.—Hazelton, Pa.—JOHN LLOYD, Wilkesbarre, Pa., has been awarded contract by A. Pardee & Co. to drive a tunnel in No. 4 Crystal Ridge colliery.

SUBMARINE BOATS.—Washington, D. C.—U. S. Navy Department has awarded contract for construction of two submarine boats to ELECTRIC BOAT CO. for $450,000.

WHARF EXTENSION.—Collingwood, Ont.—Canadian Government is stated to have let contract for extension of wharf at this place to EDWIN CONWAY, Petrolea, Ont., for about $25,000.

BOILER.—Jacksonville, Fla.—Bids are asked until March 20 by Trustees Water-Works and Improvement Bonds, B. F. Dillon, Chn., for water tube boiler. R. N. Ellis, Supt. W.-W.

CEMENT, LUMBER.—Winnipeg, Man.—Bids are asked by C. J. Brown, Cy. Clk., until April 4 for supply of 20,000 to 30,000 bbls. cement, and 1,500,000 ft. to 3,000,000 ft. of lumber.

DAM.—Iroquois, Ont.—Contract for removing and rebuilding dam on St. Lawrence canal system, near this place, has been let to JOHN O'LEARY, Ottawa, Ont., for about $40,000.

GONDOLA HOPPER CARS.—Winnipeg, Man.—All bids received Feb. 28 by city for furnishing five gondola hopper cars were rejected and new bids will be received. C. J. Brown is Cy. Clk.

BREAKWATER EXTENSION.—Gabarus, N. S.—Bids are asked by Fred. Gelinas, Secy. Dept. Pub. Wks., Ottawa, Ont., until March 20 for construction of extension of breakwater at this place.

SANITARY FIXTURES, ETC.—Washington, D. C.—Bids are asked by Isthmian Canal Commission, Maj. H. J. Gallagher, U. S. A., Purchasing Agent, until April 3 for furnishing sanitary fixtures and roughing materials.

MOORING STONES.—Portland, Me.—Bids are asked at office of Light-House Inspector until March 27 for furnishing mooring stones for use in First Light-House District for fiscal year. Commander C. P. Rees, U. S. N., Inspector.

CEMENT.—New York, N. Y.—THE HI[illegible]MENT CO., Albany, N. Y., is stated t[illegible] contract to furnish the Kosmos Engi[illegible] York, with 130,000 barrels of cement w[illegible] for the anchorage of the new Manhatta[illegible]

WHARFS.—New Orleans, La.—We a[illegible] plans and specifications have been p[illegible] wharves to be erected by city on the ri[illegible] now in hands of Board of Port Comm[illegible] Coleman, Engr. It is expected that bid[illegible] soon for the work.

COAL AND ASH HANDLING MACHIN[illegible] ton, D. C.—Bids are asked until March [illegible] and erecting coal and ash handling m[illegible] sewerage pumping station. H. B. F. M[illegible] L. West, John Biddle, Comrs. (Advert[illegible] News.)

TELEPHONE EXTENSIONS.—St. Paul[illegible] western Telephone Exchange Co., accor[illegible] is to expend $1,000,000 this year in impro[illegible] tensions of its system in Minnesota and th[illegible] of the extension work will be a toll li[illegible] N. Dak.

SAND, PILES, CABLE, ETC.—Washing[illegible] are asked by Bureau Supplies and Acco[illegible] partment, until March 28 for furnishing q[illegible] supplies, among which are sand, gravel, b[illegible] submarine cable, cast-iron pipe, bilge pum[illegible] B. Harris, Paym.-Gen., U. S. N.

STEEL SHED.—New Orleans, La.—We [illegible] that all bids received March 9 by Board of [illegible] sioners, J. F. Coleman, Engr., for constru[illegible] derson St. steel shed were rejected and [illegible] being taken until March 28. Itemized [illegible] March 9 are given under Contract Prices.

DITCHES.—Storm Lake, Ia.—We are [illegible] that Buena Vista County Supervisors received [illegible] 7 for construction of ditches in District No. [illegible] will not be readvertised until Supreme Cour[illegible] decision on drainage law. E. D. Hoxsey, [illegible] Contract involved about 195,900 cu. yds. ex[illegible]

COAL PLANT.—New Orleans, La.—Specifications for construction of plant for handling and storing coal at Naval Station, New Orleans, La., may be seen at office of Engineering News, 220 Broadway, New York. Bids are asked by Bureau Yards and Docks, Washington, D. C., until April 29, as was stated in our issue of March 9.

WRECK REMOVAL.—Boston, Mass.—A. S. Brown, Jr., "Surety Bonds," 85 Water St., Boston, informs us that Van Sant & Boehn, Atlantic City, N. J., at $1,700, were low bidders for removing wreck of canal boat at Rouses Point, N. Y., and in Lake Champlain, bids for doing which were received at U. S. Engineer's Office March 6.

MONUMENT.—Andersonville, Ga.—Bids are asked by President of Iowa Andersonville Monument Commission, 2103 Woodland Ave., Des Moines, Ia., until April 12 for the erection and completion of a granite monument, to be erected at Andersonville. Plans and specifications at office of Proudfoot & Bird, Archs., 712 Crocker Bldg., Des Moines.

REPAIRING LAUNCH, PROPELLERS.—New York, N. Y.—Bids are asked by Commissioner of Correction, 148 East 20th St., until March 21 for furnishing labor and materials required for repairs to launch "Thomas F. Gilroy"; bids are also asked for labor and materials required for new propellers for steamer "Massasoit." Geo. W. Meyer, Jr., Acting Comr.

FOUNDRY EQUIPMENT.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts until April 11 for furnishing at Navy Yard, League Island, Pa., an equipment for new foundry, consisting of cupola, blowers, core ovens, car, pit for crucible furnaces, cranes, crane ladle, brick stacks, brakes, girders, freight elevators, etc. H. T. B. Harris, Paym.-Gen., U. S. N.

ROAD ROLLER AND SCARIFIER.—New York, N. Y.—Following bids were received March 9 by Park Board for furnishing and delivering (1) one steam road roller and (2) one road scarifier: Buffalo Steam Roller Co., Buffalo, N. Y., (1) $1,300, (2) $360; Acme Road Machine Co., Frankfort, N. Y., (1) $3,000, (2) $400; Julian Scholl, 126 Liberty St., New York, (1) $2,100, (2) $350.

MACHINERY, ETC.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts until April 11 for furnishing at Navy Yards, Portsmouth, N. H., Boston, Mass., League Island, Pa., and Norfolk, Va., a quantity of machine tools, as follows: Upright drill, emery grinders, air compressor, motor drive outfits, planer, bolt cutter, engine lathes, pipe machine, bending machines, electric whipholsts and lathes. H. T. B. Harris, Paym.-Gen., U. S. N.

FLOOR.—Washington, D. C.—Bids were received March 3 by Bureau Yards and Docks for steel and concrete floor for Building No. 118, Navy Yard, Washington, the three lowest bidders for work for Item 1, which calls for construction under Government plans and specifications, being as follows: F. J. Boas, 14 South Broad St., Philadelphia, Pa., $5,385; Snare & Triest Co., 39 Cortlandt St., New York, $5,388; Richard J. Beall, Jr., 1217 F St., N. W., Washington, D. C., $5,430.

FERRY STRUCTURES.—New York, N. Y.—Following bids were received March 13 by Commissioner of Docks for labor and materials for preparing for and removing the present ferry structures at St. George, Staten Island, Borough of Richmond, and building new ferry structures in connection with the new St. George ferry terminal and for dredging thereat: G. B. Spearin, 17 Battery Pl., $49,067; Bernard Rolf, 39 Cortlandt St., $512,413; Seely-Taylor Co., 78 Broad St., $366,200; Geo. W. Rogers, $546,340; all New York city bidders.

BARGE CANAL.—Albany, N. Y.—Additional contracts for barge canal work have been awarded as follows: Contract No. 2, Erie Canal, Sec. 1, FERGUSON CONTRACTING CO., 69 Wall St., New York, $852,330; Contract No. 3, Champlain Canal, Lake line, SUNDSTROM & STRATTON, 143 Liberty St., New York, $670,497; Contract No. 5, Erie Canal, Sec. 7, LINDON W. BATES, 74 Broadway, New York, $381,987. Bids for the above work were opened Dec. 15, 16 and 17, and the itemized bids received will be found under Contract Prices in the Dec. 22 issue of Engineering News.

PIER WORK.—New York, N. Y.—Following bids were received March 10 by Commissioner of Docks for furnishing labor and materials required for preparing for and removing present pier, Old No. 19, East River, Borough of Manhattan, and building a new pier between Maiden Lane and Burling Slip, to be known as Pier No. 15, or Burling Slip Pier, West: W. H. Jenks, 130 Pearl St., $58,857; G. B. Spearin, 17 Battery Pl., $59,767; R. P. & J. H. Staats, 29 Broadway, $58,212; Snare & Triest, 39 Cortlandt St., $55,736; Bernard Rolf, 39 Cortlandt St., $59,293; all bidders from New York city.

MINING MACHINERY.—Baltimore, Md.—A new company recently incorporated, having a large aggregation of proven mines and over $50,000,000 ore ready for mill-

(gold, silver and copper), wants to get the mines ...pped with machinery and the business started quickly. ... company does not want to sacrifice its capital stock, ... will turn over the net proceeds of the mines until ma... ...nery is paid for in full. The stock can be sold at par ...en the mines are equipped with machinery. There ... be set aside sufficient stock also, to be sold at par for ...ment of machinery. Address Wm. C. Codd, 702 Len... St., Baltimore, Md.

ELECTRIC ELEVATORS.—Portsmouth, N. H.—Follow... bids were received March 11 by Bureau Yards and ...ks for electric elevators for storehouse at Navy Yard, ...tsmouth: Howard Iron Works, 281 Chicago St., Buf... ...k, $6,480; The Marine Engine & Machine Co., 80 ...adway, New York, $8,197; Louisville Elevator Co., Cor... Eighth and York Sts., Louisville, Ky., $6,670; Reely ...evator Co., 407 West 14th St., New York, $5,670; Chas. Curwen (Salem Elevator Works), 246 Canal St., Salem, ...ss., $6,315; The Elektron Mfg. Co., 60 Wilbraham Road, ...ringfield, Mass., $5,960.

DOCKS, GRAIN ELEVATORS, ETC.—New Orleans, La. Active reconstruction work has been begun by Illinois ...ntral R. R. Co. on the site of its Sturtevant Terminal, ...hich was destroyed by fire Feb. 26. Contract for re... ...ilding elevator E, capacity 1,500,000 bushels, has been ...arded to SWIFT & CO., Chicago, Ill., for about $300,... ... Contract for rebuilding about 1,000 ft. of warehouse ...eds has been awarded to JAMES STEWART & CO., St. ...Louis, Mo., at about $75,000. The railway company has ...ready rebuilt 600 ft. of permanent dock. H. U. Wal... ...ace, Ch. Engr., Illinois Central, with office in Chicago, is ...mporarily at New Orleans in active charge of the plans ...for rebuilding.

FLOOD PREVENTION.—Kansas City, Kan.—Robert ...Moore, C. E., Laclede Bldg., St. Louis, Mo., has made ...his report to the railroad companies and stock yards, re... ...garding improvements necessary for controlling floods of ...Kaw River. According to Mr. Moore's plans and esti... ...mates, the cost of the work will be $800,000, divided up ...as follows: Excavation, 2,200,000 cu. yds., $440,000; bank ...revetment, 10,000 ft., $100,000; raising and shaping banks, ...$35,000; bridge work, $148,000; general expenses, $87,000. It was also estimated that $50,000 worth of work at mouth ...of Kaw River was necessary, but this would probably be ...done by the government. No action will be taken on the ...matter for five or six weeks, or until the formation of a ...board of drainage commissioners. W. B. Storey, Topeka, ...Kan., Ch. Engr., Kansas City Belt Ry., was Chn. of ...Board of railroad engineers to whom the report was made.

## MEXICO.

ELECTRIC PLANT.—Temascaltepec, State of Mexico.—Francisco Segura & Brother will install an electric light and power plant here.

STREET RAILWAY.—Zacatecas.—It is stated that the local street railway company, of which Flavia Macias is Pres., will make extensive improvements to its system.

STAMP MILL.—El Chico, Pachuca.—The Argentine y Anexas Mining Co., City of Mexico, propose to erect a 20-stamp mill and concentrator, with Bronson tables, at their property at El Chico, Pachuca.

HYDRO-ELECTRIC POWER.—La Piedad, Michoacan.—The Compania Industrial de la Piedad, S. A., has been organized in that city for the purpose of utilizing a waterfall for electric light and tramway service.

ELECTRIC PLANT.—Lampazos, Nueva Leon.—Arthur E. Banks, of Monterey, will install an electric light and power plant at Lampazos. The plant will start with about 1,000 incandescent lights and a number of arc lights.

ELECTRIC RAILWAY. — Guadalajara. — Kunhardt Brothers, owners of a mule car system in Guadalajara, have applied to State Government for a concession to convert their lines into electric traction and to extend the system. The system comprises about eight miles of track.

POWER PLANT.—Parral.—The San Lorenzo water fall, situated near Parral, has been purchased by James Roberts, of the city of Durango, with the intention of establishing large electric power and transmission plant at the falls and to furnish power for mines and other industries.

RAILROAD.—San Felipe.—Surveys have been completed for a railroad from Juan Felipe to the Toncochin River, for the Pan-American Asphalt Co., 17 Battery Pl., New York. The road, which will be narrow gage, is to have a length of 25 miles. Nothing will be done for some time regarding construction.

ELECTRIC RAILWAY.—Monterey.—Colonel Joseph A. Robertson, of Monterey, representing American syndicate, has obtained a concession for the construction and operation of a system of electric street railway in this city. Colonel Robertson states that there will be no delay in beginning the construction of the system and that it will be ready for operation in a year.

COLONY.—Tampico.—The International Land & Colonization Co., represented in this city by H. E. Diehl, of Lawton, Okla., has purchased 23,000 acres at the foot of the Gonzales Mountain, which will be used for a new colony. It is the intention to erect an electric light plant to be run with water from the Tamesi River. The river will also furnish the water for irrigation.

DRAINAGE, SEWER SYSTEM, ETC.—City of Mexico.—MEXICAN ENGINEERING & CONSTRUCTION CO., City of Mexico, has obtained the following three large contracts for government work recently: Drainage and sewer system for the city of Vera Cruz, to cost $300,000; construction of the government palace at Jalapa, the state capital, and the municipal prison in Cordoba, where the company is now constructing a drainage system.

SUGAR REFINERY.—Vera Cruz.—Mexican National Sugar Refinery Co. has been organized, under the laws of New Jersey, with a capital of $1,500,000, gold, for the purpose of erecting, during the current year, a complete modern sugar refinery in connection with a first-class crushing plant. The company owns the plantation known as El Potrero, five miles from the city of Cordova. W. P. Winans and W. F. Offner, of Walla Walla, Wash., are interested.

ELECTRIC PLANT.—Zapotlan.—The steam power electric lighting plant of this city, now furnishing 1,500 electric lights, and capitalized at $96,000 has been taken over by a company composed of Rafael Arias, D. Villanueva and Ugarte & Garcia Fuentes. Electrical Engineers, of Guadalajara, who will install a water power plant, to furnish current for lighting and power in this city. The plant which is to have a capacity of 600 HP., is to be located at the Piedras Negras falls of the Covianas River, about 16 miles from here.

WATER WORKS AND SEWERAGE.—Juarez.—It is expected that Governor Creel, of State of Chihuahua, will call for bids for water works for this city. The State of Chihuahua will loan the city sufficient funds to erect the waterworks and sewerage system. The estimated cost of the waterworks is $70,000 and the sewerage system will cost $100,000. The pipes will be 6 and 8-in. black iron, and weigh about 400,000 lbs. Two storage tanks of 200,000 gallons each will be put in. The City of Juarez will buy the tanks in the U. S., and will receive bids from any parties desiring to submit. Two 30-HP. gasoline engines will also be required.

RAILROAD; MINERAL DEPOSITS.—Guerrero.—J. M. Hamilton, Cadereyta, State of Guerrero, writes us that the National R. R. of Mexico, is seriously considering construction of new line from Bernal towards Tampico. Such a line would traverse a rich undeveloped mining country. The entire line would be 500 kilometers in length, and the first 200 kilometers would cost about $4,800,000 (Mexican); the remainder of line would only cost about $2,400,000. Mr. Hamilton, who is exploring this section of the company, reports that there is plenty of oil and coal and the indications are that mining camps could be opened up along the line of the projected railroad.

ELECTRIC PLANT. — Camargo, Chihuahua.—Pablo Gunter, of Camargo, and Joaquin Certazar, of Parral, have applied to Mexican government for concession to use water of Conches River for generating electric power. They propose to invest not less than $1,000,000 in the enterprise, and have had plans prepared for a masonry dam which they will construct across the river at a point called the Roquilla, where the river emerges from a canyon about four miles from the village of San Francisco Conches, and about 15 miles from the town of Camargo. The power plant will be constructed near the dam, and from it transmission lines will be run to Camargo, Parral and a number of other towns and mining camps of that section.

## FOREIGN CONTRACTS—EXPORT NEWS.

MINING.—Spain.—Julio de Lazartogin y Co., a limited company with capital of $324,549, has just been formed for the studying, operating and selling of mines. Its headquarters are situated at Bilbao.

ELECTRIC RAILWAY.—Switzerland.—A company has just been formed at Paris, France, with a view to constructing and operating an electric railway, which will bring tourists to the summit of Mt. Blanc. The capital necessary, $2,000,000, has been subscribed. Electric energy will be produced by the various torrents which flow down the mountain.

ZINC MINING.—Spain.—The Zinc Mines Co., of Rinloha-Comillas, has been organized with capital of $135,000. Its headquarters are situated at Bilbao. The board of directors is composed of Messrs. Don Silvestre Ajuria, Don Jorge Polak, Paris; Don Alberto Dandy, Paris, and M. Morin Pillière, Paris. Mr. Dirassen, of the Société Franco-Belge, of Somorrostro, is Consult. Engr. of the company.

RAILWAY, QUAY, PIPE, ETC.—Servia.—The Servian Government, according to reports, is about to undertake several important public works; these include the construction of light railways, the building of a quay and warehouses in Belgrade, and the improvement of the drainage and water supply of that city. Tenders were invited last year for the construction of railways, 0.76 meter gage; but very few tenders were received, and no adjudication took place. Tenders will be invited in the near future for the supply of rolling stock and metallic bridgework. If all the Government projects are carried out, 1,200 kilom. of railway will be constructed; all the materials will have to be imported.

POWER PLANTS.—Italy.—The Prefect of Novara has granted the following concessions for the appropriation of water for industrial purposes: To Messrs. Vonvillier and Company for an appropriation from the River Sesia, in the Territory of Grignasco and Prato Sesia, for the production of electric power to be transmitted to Cartiera; to the Anza Motive Power Co., 4 Via Piatti, Milan, for an appropriation from the Anza waterfall, in the commune of Calasca, for the production of power for industrial purposes and for electric lighting. To Signor Gualea Alessio for an appropriation from the Pollesina waterfall, in the Territory of Pella, for electric lighting puposes in the commune of Pella and other neighboring communes.

PUBLIC WORKS.—Argentina.—Our correspondent in Buenos Aires has sent us the following information concerning projected public and private work in this country:

Electric Railways.—A syndicate is being formed for the construction of an electric railway between Buenos Aires, Banfield, Lomas, Temperly and Adrogue. The initiators of the scheme are J. B. Mignaguy, Dr. Benito Villanueva, Señor Massini, Señor Devoto, Samuel Hale Pearson and José Marengo, all of Buenos Aires.

Steam Tramway.—B. Roldan, of Buenos Aires, has applied to the Province of Buenos Aires for a concession for a steam tramway line from Mar del Plata to Tandil, passing through Loberia and Balcarce.

Railway.—It is proposed to construct an economical railway for the purpose of connecting the guebracho forests of Solta with the Central Northern Railway and Resistencia. The distance to be covered is some 600 kilometers and the estimated cost is $8,000 gold per kilometer. It is also expected that construction of this line will prove beneficial in opening up lands fit for cotton cultivation and thus greatly enhance the value of the properties through which it will run.

Railway Extension.—The government has approved the plans of the Western Railway for the prolongation of its line to San Rafael in Mendoza, a distance of 500 kilometers.

Sanitary Material.—The Ministry of the Interior has arranged with the President of the National Board of Health for the immediate acquisition of the floating sanitary material necessary for the fulfilment of the convention with Paraguay, Brazil and Uruguay. The total cost is estimated at $200,000, and four small vessels with the most modern disinfecting apparatus will be needed. A decree will shortly appear ordering the purchase of Clayton apparatus, which will serve for disinfection in any part of the Republic.


## READERS' WANTS

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DRY-KILN.—Melrose, Fla.—The Melrose Mfg. Co. is in the market.

BRIQUETTE-MAKING MACHINERY.—Troy, Ala.—L. M. Bashinsky is reported in the market.

GASOLINE PLANT.—Chester, S. C.—A. H. Greene & Son, Nicholson Hotel, are in the market.

BOILER AND ENGINE.—Melrose, Fla.—The Melrose Mfg. Co. is in the market for the above.

MECHANICS' TOOLS.—Holland.—Durk Drake, of Arnheim, Holland, is reported in the market for mechanics' tools.

HARDWARE AND FIREARMS.—Bolivia.—Brockmeyer & Co., of Cochabamba, Bolivia, are in the market for the above.

PAINTING MACHINES.—Deland, Fla.—J. H. Kruse, Ch. Engr., J. B. Stetson Univ., is in the market for painting machines.

TANKS, SANITARY SUPPLIES, ETC.—Mexico.—S. C. Hermanos, Independencia 41, Vera Cruz, Mex., wants prices on the above.

HYDRAULIC RAMS.—Mexico.—Eugenio Senbia, of Aguascalientes, Mex., is in the market for hydraulic rams and cast-iron tube, etc.

ENGINE AND BOILER.—Petersburg, Va.—The Seward Trunk & Bag Co. is reported in the market for a 60-HP. engine and 150-HP. boiler.

WOOD-WORKING MACHINERY.—Colombia.—Falquez Hermanos, Apartado 187 Barranquilla, Colombia, are in the market for the above.

RAILWAY TOOLS.—Anthony, Kan.—W. S. Priddy, Ch. Engr., K., M., V. & W. R. R., is in the market for railway and contractors' tools.

PLUMBING AND BUILDING SUPPLIES.—Daytona, Fla.—Dr. J. A. Van Valzah is in the market for the above, and also for electrical supplies, etc.

SMALL WATER MOTORS.—Los Angeles, Cal.—We are informed that Harper & Reynolds Co., hardware, etc., are in the market for small water motors.

PNEUMATIC TOOLS.—Hawaii.—Catton, Seill & Co., Ltd., Engrs., 248 Queen St., Honolulu, are in the market for all kinds of tools, especially the above.

GALVANIZED IRON WALL PLUGS.—Johnson City, Tenn.—Jno. G. Unkefer & Co., Contractors, write us that they want names of firms who make the above.

INCANDESCENT LAMPS.—India.—S. N. Mody & Co., St. James St., Secunderabad, Deccan, wants to get into correspondence with manufacturers of the above.

ENGINE AND BOILER AND MINING SUPPLIES.—Pine Mountain, Ga.—The Pine Mountain Mica & Asbestos Co. is in the market for all kinds of mining supplies.

CRUSHING ROLLS.—Dayton, Ohio.—H. E. Talbot & Co., Contractors, write us that they are in the market for a set of crushing rolls for making concrete sand from rock.

RAILWAY SUPPLIES.—South Africa.—Morday & Dowbarn, C. E., 82 Victoria St., London, Eng., are in the market for steel rails, etc., for use in Johannesburg, So. Africa.

BRICK-MAKING AND CONCRETE BLOCK MACHINERY.—Salisbury, N. C.—E. I. Frost, Secy. Chamber of Commerce, is in the market for the above for making sand, lime, brick.

WOODEN TANK.—Staunton, Va.—H. H. Smith is reported as wanting prices on 5,000 to 6,000-gallon tanks.

BRICK-MAKING MACHINERY.—W. I. Lyman, P. O. Box 347, Jacksonville, Fla.; E. T. Frith, of Greenville, O., and C. W. Stuart, 726 Third Ave., Huntingdon, W. Va., are in the market.

ELECTRIC RAILWAY SUPPLIES.—China.—U. S. Vice-Consul Gracey, at Nankin, China, reports that the Viceroy wishes to be placed in communication with manufacturers of electric railway supplies.

ELECTRIC SUPPLIES.—Memphis, Tenn.—J. W. Ullman, of the Merchants' Power Co., Rogers Bldg., writes us that he will soon be in the market for all the electrical supplies for the proposed power plant.

ROTARY SNOW PLOWS.—Norway.—C. W. Adams, Engr., Ry. Dept., Standard Construction Co., Ltd., Dundeland Works, Guldsmedvik i Ranen, Norway, writes us that he is in the market for the above.

TRACTION ENGINES.—Marshallville, Ga.—The Elberta Crate Co. is in the market for traction engines for hauling lumber a distance of four miles. The same company wants an engine, boiler, sawmill machinery, etc.

SCREENS FOR SEWAGE PUMPS.—Helena, Mont.—F. H. Wright, Cy. Engr., writes us that he wishes to learn the names of firms who make screens for placing around the intake to the sewage pumps, same to be of galvanized metal.

FIVE 50-TON LEADING TANKS (CYANIDE), STAMP MILL (10 STAMPS), MINING MACHINERY, TANKS, ETC.—Maiden, Mont.—E. H. Crabtree, Mgr. Globe-Maginnis Mining Co., writes us that it is in the market for the above.

FOUNDRY WORK.—Victor, N. Y.—The Locke Insulator Mfg. Co. writes us that it has considerable work to be done in connection with its ridge irons, which they deal in, and wishes to get into correspondence with firms who can make the best steel parts.

FILTER-CLOTH FOR DUST COLLECTOR.—Alseus, N. Y.—The Alseus American Portland Cement Works, of Alseus, writes us that it is in the market for some filter-cloth for its dust protector, and requests to be placed in correspondence with manufacturers of such material.

AUTOMATIC FIRE SPRINKLER.—Lumberton, N. C.—Caldwell & Carlyle are reported as soon to be in the market, as also will be D. B. Loveman, of Chattanooga, Tenn., L. E. McCormick, Gen. Mgr., Dawson Cotton Oil Co., of Dawson, Tex., who also wants a 63-ft. steel tower, 20,000-gallon steel tank and a fire pump.

ELEVATING AND CONVEYING MACHINERY, UNLOADERS, ETC.—Cincinnati, O.—G. B. Collier, 142 E. 4th St., writes us that he has in contemplation the installment of an elevating and conveying device, whereby coal of all kinds can be unloaded from cars elevated to a height of about 60 ft., and conveyed to hoppers a distance of about 250 ft.; capacity need not exceed 200 tons daily.

AERIAL WIRE TRAMWAY (500 FT.), AIR COMPRESSORS, CANDLES (MINING), CAPS (BOXES), CRUSHING MACHINERY (ROLLS), DRILLS (AIR), EXPLOSIVES, FUSE, HAMMERS, HOISTS (20-HP. AIR), PIPE (AIR), PIPE (WATER, 2,000 FT.), RAILS, SHOVELS, STAMP MILLS (5), PUMPS, ETC.—Hill City, So. Dak.—A. H. Elftman, Consult. Engr., Gophar Gold Mining Co., Hill City, S. Dak., writes us that the above supplies are wanted at once.

## CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the work was advertised in Engineering News.]

PIPE, VALVES, HYDRANTS, SPECIALS.—Minneapolis, Minn.—Bids were received by A. J. Lydiard, Cy. Clk., March 10, for furnishing 774 tons 6-in., 21 tons 8-in., 116 tons 12-in., and 106 tons 16-in. cast-iron water pipe, the only bidders being Jas. B. Clow & Sons, Chicago, Ill., at $28.70 per ton, and U. S. Cast-Iron Pipe & Foundry Co., Chicago, Ill., at $27.90 per ton. For furnishing valves and hydrants bids were received as follows, (1) being bid for 41 6-in. valves, (2) bid for two 8-in. valves, (3) for three 12-in. valves, (4) for two 16-in. valves, and (5) for fire hydrants: R. D. Wood & Co., Philadelphia, Pa., (1) $12, (2) $18, (3) $33.20, (4) $73, (5) $38 and $35 without frost jackets; C. W. Thomas, Detroit, Mich., (1) $11, (2) $17, (3) $30.50, (4) $65; National Car Wheel Co., Sayre, Pa., (1) $10.75, (2) $16.50, (3) $32.50, (4) $57, (5) $35.50 and $31.50 without frost jackets. For 22 tons special castings Northwestern Foundry Co., Minneapolis, bid 2.6 cts. per lb., delivered on work.

*STEEL SHED.—New Orleans, La.—Following bids were received March 9 by Board Port Commissioners, J. F. Coleman, Engr., for construction of Henderson St. steel shed; all bids were rejected, and work is readvertised until March 28:

Bids received at New Orleans, La., March 9, 1905, for Construction of Henderson Street Steel Shed.

| Names and Addresses. | Steel, 456,000 lbs. | Corrugated Iron, 87 squares. | 10-in. Galvanized Iron Gutters, 601 ft. | 8-in. Galvanized Iron Gutters, 601 ft. | 4-in. Galvanized Iron Down Spouts, 190 ft. | Cast Iron, 2,000 lbs. | Totals. |
|---|---|---|---|---|---|---|---|
| American Bridge Co. of New York, New Orleans, La. | .0299 | $6.25 | .37 | .20 | .15 | .04 | $14,62 |
| Penn. Bridge Co., Beaver Falls, Pa. | .0354 | 7.70 | .35 | .20 | .15 | .04 | 17,251 |
| Stupp Bros. Iron Works, St. Louis, Mo. | .0345 | 6.70 | .25 | .15 | .25 | .035 | 16,673 |
| Virginia Bridge & Iron Co., Roanoke, Va. | .03395 | 8.00 | .26 | .17 | .15 | .03 | 16,524 |
| Milwaukee Bridge Co., Milwaukee, Wis. | .035 | 6.35 | .40 | .25 | .15 | .13 | 16,992 |
| Modern Steel Structural Co., Waukesha, Wis. | .0344 | 7.00 | .40 | .20 | .20 | .045 | 16 784 |
| Brown-Ketcham Iron Works, Indianapolis, Ind. | .0325 | 6.25 | .50 | .30 | .22 | .05 | 15,986 |
| Morava Construction Co., Chicago, Ill. | .0314 | 6.40 | .25 | .15 | .12 | .04 | 15 220 |
| Bellefontaine Bridge & Iron Co., Bellefontaine, Ohio. | .034 | 7.00 | .50 | .20 | .125 | .035 | 16,227 |
| McClintic-Marshall Construction Co., Pottstown, Pa. | .0345 | 9.80 | .40 | .25 | .25 | .03 | 17,083 |
| Riverside Bridge Co., Wheeling, W. Va. | .033 | 7.00 | .35 | .16 | .15 | .035 | 16,062 |
| Kenwood Bridge Co., Chicago, Ill. | .0319 | 7.75 | .25 | .15 | .15 | .0215 | 15,533 |
| Warren City Boiler Works, Warren, Ohio. | .03602 | 9.36 | .16 | .14 | .14 | .038 | 17,522 |
| Belmont Iron Works, Philadelphia, Pa. | .0334 | 10.00 | .17 | .10 | .19 | .025 | 16,349 |
| Clinton Bridge Co., Clinton, Iowa. | .037 | 9.50 | .20 | .14 | .12 | .035 | 17,996 |
| L. Schreiber & Sons Co., St. Louis, Mo. | .0331 | 7.43 | .37 | .20 | .15 | .035 | 16,181 |
| New Castle Bridge Co., Indianapolis, Ind. | .0315 | 6.95 | .37 | .19 | .14 | .0215 | 15,375 |
| Worden-Allen Co. | .0335 | 5.89 | .36 | .20 | .13 | .0335 | 16,217 |
| Mt. Vernon Bridge Co., Mt. Vernon, Ohio. | .0325 | 5.85 | .36 | .20 | .125 | .035 | 15,759 |

BRICK PAVING.—Racine, Wis.—Bids were received by Board Public Works, P. H. Connolly, Cy. Engr., March 4 for paving Douglas Ave. for length of 5,865 ft. and width of 42 ft. and 46 ft., with brick on 6-in. macadam foundation. A combined concrete curb and gutter is included. The bids received were as follows: (1) being bid per sq. yd. for 15,960 yds. paving, and (2) bid per lin. ft. for 11,283 ft. combined curb and gutter: Badger Const. Co., Milwaukee, Wis., (1) $1.67, (2) 57 cts.; M. H. McGovern, Chicago, Ill., (1) $1.67, (2) 45 cts.; Jas. Cape & Sons, Racine, Wis., (1) $1.40, (2) 70 cts.; Smith & Brown, Chicago, Ill., (1) $1.69, (2) 50 cts.; R. R. Birdsall, Racine, Wis., (1) $1.42, (2) 63 cts.; P. B. Johnson, Racine, Wis., (1) $1.46, (2) 70 cts.; John O. Jones, Racine, Wis., (1) $1.48, (2) 34 cts.; Harding & Nelson, Racine, Wis., (1) $1.49½, (2) 60 cts.; N. Reichert, Jr., Racine, Wis., (1) $1.46, (2) 63 cts.

PORTLAND CEMENT AND HAULING SAME.—San Francisco, Cal.—Following bids were received at office of Capt. W. W. Harts, U. S. Engrs., March 3 for 3,000 bbls., or 12,000 sacks, of Portland cement, delivered at Marysville, Yuba County, Cal.: Western Fuel Co., 318 California St., San Francisco, $2.25 per bbl. of 375 lbs., or per 4 sacks of same weight, subject to a rebate of 20 cts. on the return of empty barrels or sacks; Henry Cowell Lime & Cement Co., 211 Drumm St., San Francisco, $2.25 per bbl. or 4 sacks, subject to a rebate of 20 cts. on return of empties; G. W. McNear, 230 California St., San Francisco, $2.40 per bbl. or 4 sacks, without rebate. Bids were also opened on the same date for the hauling of the cement from Marysville to Barrier No. 1 on the Yuba River, a distance of about ten miles, the bids being as follows: Geo. S. Risher, Browns Valley, Cal., 73½ cts. per bbl., and Geo. W. McNear, 230 California St., San Francisco, 95 cts. per bbl.

## INDUSTRIAL NOTES.

BRYAN & SHIELDS, 1208 2d Ave., Rock Island, Ill., reports that they have organized a concrete construction company, and wish to receive catalogues relating to concrete and cement work.

BARTLETT, HAYWARD & CO., Baltimore, Md., now has under construction eleven gas-holders having an aggregate capacity of 61,000,000 cu. ft. This company has constructed from 1876 to 1904, inclusive, 301 gas-holders with an aggregate capacity of 177,000,000 cu. ft.

THE LACLEDE FIRE BRICK CO., St. Louis, Mo., has installed at its plant a complete laboratory, which is in charge of A. J. Aubrey, a graduate of the School of Mines of Ohio State University. This company, which manufactures fire brick, tiles, sewer and culvert pipe, etc., analyzes all the raw materials entering into the manufacture of its products.

THE NEW YORK CONTINENTAL JEWELL FILTRATION CO., New York, report the following recent sales: Residences, office buildings, etc.—Henry G. Long Asylum, Lancaster, Pa.; Richard A. McCurdy, Morristown, N. J.; H. H. Collins, Jr., 1712 Locust St., Philadelphia; Bell Building, 320 Fifth Ave., N. Y.; Robert H. Thompson, 330 West 86th St., N. Y.; C. W. Hallopeter, 1428 N. Broad St., Philadelphia. Water-works—Bangor (Me.) Water-works, addition. Textile Mills, etc., etc.—New Eng. Cotton Yarn Co., Taunton; Angola Dyeing Co., Philadelphia. Miscellaneous Users—Glover Mfg. Co., Juliette, Ga.; Jas. Kennedy, Troy.

THE WESTINGHOUSE ELECTRIC & MFG. CO., Pittsburg, Pa., has closed a contract with the United Railways & Electric Co., of Baltimore, Md.—an alternating current generator to be rated at 5,000 kilowatts. It will be of the flywheel type, with 32 poles, and will run at 94 r. p. m. The generator will be wound for 13,000 volts, three-phase, with a frequency of 25 cycles. The 5,000 KW. generator now on order is to have the same characteristics and to run in parallel with the five 2,000-KW. generators which the Westinghouse company just finished installing in the Pratt St. Station in Baltimore.

THE UNITED COKE & GAS CO., Whitehall Bldg., New York, announces that the lease of its by-product coke oven business to the Semet-Solvay Co., of Syracuse, N. Y., has terminated. This puts The United Coke & Gas Co. in its former position of exploiting by-product coke ovens of the Otto-Hoffmann and United-Otto types. The number of these ovens now in operation or contracted for (2,603 ovens in the United States and Canada) demonstrates conclusively that the by-product recovery in the manufacture of coke is now permanently established. The American Coal Products Co., 17 Battery Pl., New York, will continue to act as selling agent for the tar and ammonia produced by both the United-Otto and Semet-Solvay ovens. The following officers have been elected: G. W. Elkins, Chairman; W. H. Childs, Pres.; Dr. F. Schniewind, Vice-Pres.; T. M. Rianhard, Vice-Pres. and Treas.; E. J. Steer, Secy.

THE LIMA LOCOMOTIVE & MACHINE CO., Lima, Ohio, is building for the Holly River & Addison Railway Co., one 10-wheel locomotive, Class 0-6-4, same having cylinders 13 ins. diameter 18 ins. stroke. This locomotive will be equipped with Ramea Vacuum [illegible]ke on both engine and tender, and will be fitted with [illegible]odern fittings, such as Sellers injectors, Ashcroft [illegible]gage, Detroit sight feed lubricators, Hayden pop val[illegible]etc. They are also building a double end locomotiv[illegible]ses 2-6-2. with separate tender for the Crowell & S[illegible] Lumber Co., Long Leaf, La. This locomotive ha[illegible]nders 15 ins. diameter 20 ins. stroke, and will be equ[illegible] with the Lima Locomotive & Machine Co.'s own mak[illegible]m brake. The company also has orders on its books f[illegible] 16-in. cylinder four driver saddle tank, for the[illegible] Sound Navy Yard at Bremer, Washington, and o[illegible]all mine locomotive for the Margaret Mining Compa[illegible]elsh, W. Va. The company also report business [illegible] in their Geared Locomotive Department, and have r[illegible]hipped a number of plantation type locomotives [illegible]xico.

## TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogues recommended by all the principal engineering societies of the United States are: 3½ × 6 ins., 6 × 9 ins., and 9 × 12 ins.)

GRAPHITE PAINT.—Detroit Graphite Manufacturing Co., Detroit, Mich. Pp. 8.

PNEUMATIC TOOLS.—Chicago Pneumatic Tool Co., Chicago, Ill. A monthly magazine.

SAMPLE CRUSHER.—Sturtevant Mill Co., Boston, Mass. 3½ × 6 ins.; pp. 8.

This folder shows crushers and grinders for laboratory use.

CHAINS.—Newhall Chain, Forge & Iron Co., 15 Murray St., New York. 6 × 9 ins.; pp. 32.

Chains, hooks, shackles, are illustrated, weights and dimensions being given.

LUBRICATING GRAPHITE.—Joseph Dixon Crucible Co., Jersey City, N. J. 6 × 9 ins.; pp. 28.

The use of graphite as a lubricant for different purposes is discussed, and prices are given.

CENTRIFUGAL PUMPS.—Wickes Brothers, 113 Cedar St., New York. 6 × 9 ins; pp. 4.

Centrifugal pumps of the belted type, engine-connected type and electric-motor-driven type are illustrated, and capacities given for different sizes.

SILENT CHAIN DRIVES.—The Morse Chain Co., Trumansburg, N. Y. 6 × 9 ins.; pp. 18.

The Morse frictionless rocker joint for chains used in transmitting power is illustrated, its merits are set forth and tabular data are given, including prices.

ELEVATING GRADERS.—National Drill & Manufacturing Co., Pullman Building, Chicago, Ill. 3 × 5 ins.; pp. 6.

This folder illustrates the "National" elevating grader or wagon loader, also the "National" dump wagon.

OVERHEAD TROLLEY CONVEYORS.—Coburn Trolley Track Manufacturing Co., Holyoke, Mass. 6 × 9 ins.; pp. 8.

Trolley tracks and appurtenances for operation, either by hand or by electric power, are illustrated and briefly described.

OIL ENGINES.—De la Vergne Machine Co., foot of East 138th St., New York. 4 × 9 ins.; pp. 8.

This folder illustrates the portable and semi-portable Hornsby-Akroyd oil engine, of which it is stated over ten thousand are in operation.

FEED-WATER HEATERS.—Warren Webster & Co., Camden, N. J. 3½ × 6 ins.; pp. 20.

This pamphlet sets forth the merits of the feed-water heater and purifier manufactured by this company, and shows how much may be saved in fuel expenses by its use.

RETARDING CONVEYORS.—The Interstate Engineering Co., Cleveland, O. 3½ × 6 ins.; pp. 8.

This folder shows a number of photographs of retarding conveyors for lowering coal down the side of a hill. The coal is delivered from the bin by gravity into the trough conveyor.

## SEWERS.

Columbus, Ohio.

Sealed proposals will be received by the Board of Public Service until noon of March 20th, 1905, for construction by use of trenching machinery, of Section "A" of the Central Relief Sewer, 3,785 feet in length and 6¾ to 9¾ feet in diameter.

Specifications can be obtained from Julian Griggs, City Engineer, and plans can be seen at the City Hall, Columbus, Ohio.

Plans and specifications may be seen at the Chicago office of Engineering News, Monadnock Block, Chicago, Ill.

CHARLES H. FRANK, Secy.,
Board of Public Service.
11-2t Columbus, Ohio

## PUMPING ENGINE.

Toronto, Ont.

The time for receiving tenders for the erection of either a five-million or a six-million imperial gallon, triple-expansion, fly-wheel pumping engine for the Water-Works Department of the City of Toronto, Canada, which was to expire at noon on March 21, has been extended to noon on Tuesday, the 18th day of April. THOMAS URQUHART (Mayor).

Chairman of Board of Control.
City Hall, Toronto, March 9, 1905. 11-2t

## WATER-WORKS AND LIGHT PLANT.

New Albany, Miss., Mar. 7, 1905.

Bids will be received at the town hall until Tuesday, March 28, 1905, for the construction of a water-works and light plant, according to the plans and specifications now on file.

The right to reject any and all bids is reserved. W. A. LIDDELL, Mayor.

E. M. OWEN, Clerk.
Address
W. F. WILCOX, Engineer, Jackson, Miss.
11-1t

## GRANOLYTHIC SIDEWALK.

Greenville, Miss.

Sealed proposals will be received by the City Council of Greenville, Mississippi, up to 7.30 P. M., April 4, 1905, for the construction of approximately 600,000 square feet of granolythic sidewalk, according to plans and specifications on file in the office of the City Engineer. Payments will be made in one, two, three, four and five years at not more than 7% interest, the contractor being expected to carry this paper.

The right to reject any and all bids is reserved. 11-3t

## BRIDGE.

Atlanta, Ga.

Sealed bids addressed to the Mayor and general council will be received at the City Clerk's office, Atlanta, Ga., until 3 P. M., Monday, April 3d, for the completion of the Edgewood Avenue Bridge to be constructed with reinforced concrete, about 400 feet in length and 60 feet in width. Plans and specifications will be furnished upon application to the undersigned. The right is reserved to reject any or all bids.

R. M. CLAYTON
11-2t City Engineer.

PROPOSALS FOR PORTLAND CEMENT.—Office Isthmian Canal Commission, Washington, D. C., March 14, 1905.—Sealed proposals, in triplicate, will be received at the office of the Purchasing Agent, Isthmian Canal Commission, Washington, D. C., until 10.30 o'clock A. M., April 13, 1905, at which time they will be opened in public for furnishing 10,000 Barrels Portland Cement. Blanks and full information may be obtained from H. J. GALLAGHER, Major, U. S. Army, Purchasing Agent, Isthmian Canal Commission, Washington, D. C. 10-3t

OFFICE OF THE COMMISSIONERS, D. C., Washington, March 11, 1905.—Sealed proposals will be received at this office until 12 o'clock M., March 27, 1905, for furnishing and erecting coal and ash handling machinery for the Sewerage Pumping Station, Washington, D. C. Specifications and blank forms of proposals may be obtained at this office. HENRY B. F. MACFARLAND, HENRY L. WEST, JOHN BIDDLE, Commissioners, D. C. 11-1t

DELAWARE CITY, DEL., March 10, 1905.—Sealed proposals, in triplicate, will be received her until 11 a. m., April 10, 1905, for granolithic sidewalks at Fort Mott, N. J. Information furnished on application. U. S. reserves right to accept or reject any or all bids or any part thereof. Envelopes containing bids should be endorsed "Proposals for Granolithic Sidewalks," addressed CAPT. LOUIS F. GARRARD, JR., Q. M. 11-3t

## SITUATIONS OPEN

WANTED.—Several first-class detailers and checkers for structural steel work, with responsible firm. Address "M. B. 11," Engineering News, New York. 11-1t

WANTED.—Traveling salesman, experienced on hand and power pumps. Address "X. B. 11," Engineering News, New York. 11-3t

ARCHITECTURAL DRAFTSMAN.—Wanted, at once, a first-class draftsman for mill and structural work; $20.00 to $25.00 per week; a good general architectural draftsman, $15.00 to $18.00 per week; state age, experience and references. GRIGGS & HUNT, Architects, Waterbury, Conn. 11-1t

For other Proposal Advertisements see pages 35, 36, 37, 38, 40. of Advertisements and Construction News page 102.